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BIOSCIENCE PROGRAMS DIVISION

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME I. BEHAVIORAL BIOLOGY
SCIENTIFIC PUBLICATIONS OF THE
BIOSCIENCE PROGRAM DIVISION

VOLUME I BEHAVIORAL BIOLOGY

by

Frances Hong, L. A. Kulp and
M. F. Werber

of the
Biological Sciences Communication Project

C. W. Shilling, M.D., Director

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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREFACE</td>
<td>1</td>
</tr>
<tr>
<td>LIST OF CITATIONS</td>
<td>1</td>
</tr>
<tr>
<td>AUTHOR INDEX</td>
<td>30</td>
</tr>
<tr>
<td>PERMUTED TITLE INDEX</td>
<td>34</td>
</tr>
<tr>
<td>SENIOR AUTHORS AND ABBREVIATED LABORATORY</td>
<td></td>
</tr>
<tr>
<td>ADDRESSES</td>
<td>72</td>
</tr>
<tr>
<td>LABORATORY ADDRESSES</td>
<td>76</td>
</tr>
<tr>
<td>ANALYSIS OF THE PUBLICATION SOURCES</td>
<td>79</td>
</tr>
<tr>
<td>ADDENDUM</td>
<td>93</td>
</tr>
</tbody>
</table>
This bibliography was prepared to supplement the needs of various bioscience administrators at the National Aeronautics and Space Administration for maintaining a current awareness in their respective fields. When critically analyzed, bibliographies provide meaningful insight to the state of activities for scientific endeavors by defining areas of pursuit, providing records of accomplishment, identifying scientists and laboratories engaged in various scientific activities, revealing the direction of research and the areas of gradient emphasis in addition to listing the available literature in a particular subject field. For these reasons the importance of bibliographies is being increasingly recognized by both science administrators and research scientists.

The more than 1,400 citations in the total work represent the publication efforts of the grantees and contractors of the Bioscience Program Division since it was established. Letters were sent to the principal investigators requesting a list of publications resulting from research supported by grants or contracts from this division. The citations included in this bibliography were provided in response to this letter. Only those papers appearing in the serial literature and widely distributed report literature were considered. Theses and doctoral dissertations were omitted since such research would probably be published in scientific journals at a later date.

These citations have been collated into separate volumes for each program branch. A few citations predate the establishment of the branch offices under which they appear but are included because they resulted from efforts subsequently subsumed under these program offices. The volumes are enumerated as follows: Volume I, Behavioral Biology; Volume II, Environmental Biology; Volume III, Exobiology; Volume IV, Physical Biology; Volume V and VI, Planetary Quarantine and Bioscience Communications, respectively. Because of the brevity of the latter two bibliographies, they have been combined under one cover.

Each volume is divided into a number of sections beginning with the literature citations listed chronologically and according to the authors' surname. This arrangement reveals to some extent the growth and development of research under the direction of the program administrators. To provide access to these references both an author index and permuted title index are included.
An appendix is included which lists the journals in which these scientific publications appeared. This not only assists in identifying source material but indicates the wide range of scientific pursuit encompassed by the Bioscience Program Division. It is interesting to note here that the publications have appeared in 268 scientific and technical journals.

Also in the appendix is a list of the senior authors' affiliations which, when correlated with the directory of laboratory addresses, makes communication with a senior author possible. Copies or reprints of the citations embodied herein cannot be furnished by either NASA or BSCP but may be obtained by contacting the senior authors.

The authors gratefully acknowledge the technical assistance of Miss Sheila Rollins and of the secretarial staff in the preparation of this report.

Leslie A. Kulp, Ph.D.

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-8-


-15-


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adult before, during and after her isolation underground for three

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to limbic stimulation in man: localization of stimulus sites.

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overlap and intensity of test and masking stimuli. J. Percept.

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-23-


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In Press
1966


1967


AUTHOR INDEX FOR THE BEHAVIORAL BIOLOGY PROGRAM

Adey, W.R. 94, 95, 242, 243, 244, 247, 279, 357, 358, 363, 401, 410, 411, 412, 413, 414, 415, 416
Adkins, G. 49
Alford, B.R. 282
Algazi, V.R. 17, 96
Altman, J. 97, 245, 246, 247, 248
Ames, L. 7, 136
Andrus, V. 378
Arbib, M. 98
Aschoff, J. 99, 100
Augenstein, L. 18, 421, 424, 425
Backus, A.S.N. 174, 355
Baldwin, H.A. 101
Barlow, J.S. 359, 360, 361, 362
Batini, C. 363
Bauer, J. 212
Bauer, R.O. 413
Becker, G.M. 102
Beer, B. 19, 91, 103
Behr, R. 335
Belleville, R.E. 20, 21
Bennett, E.L. 22
Berlekamp, E.R. 23
Bernstein, T. 76
Bever, T. 104, 140, 264
Bishop, P.O. 218
Blum, M. 98
Boardman, C.J. 105
Bolles, R.C. 106, 107, 108, 249
Brady, J.V. 2, 5, 6, 10, 14, 24, 25, 26, 69, 137, 364, 384
Brill, P.L. 293, 294, 296, 392
Broderson, A.B. 390
Bromberger, S. 250, 365
Brookhouser, P. 27, 109
Brown, J.E. 110, 111
Bruce, J.D. 28, 112
Buchwald, J.S. 251, 376
Burns, S.K. 187, 252, 301
Bush, A.M. 253
Calvin, M. 22
Campbell, J.F. 346
Cannon, D.R. 120
Caplan, B. 290
Capranica, R.R. 113
Cavaggioni, A. 114
Chaffey, B. 293, 294, 296, 392
Chiamori, N.Y. 290
Chihara, C. 141
Chomsky, N. 115, 116
Chorover, S.L. 148, 190, 241, 254
Clark, F.C. 20, 87, 117, 118
Clark, L.F. 176
Clayton, R.J. 269
Coats, A.C. 3, 29, 119, 282
Cockett, A.T.K. 120, 121, 122, 123, 124, 125, 256, 284, 290, 366, 367, 368, 369, 370, 371, 373, 388, 426
Cohen, S.M. 148
Colburn, H.S. 126
Cole, M. 254
Cook, G. 382
Cordeau, J.P. 127
Corkin, S. 128
Corning, W.C. 30, 129, 257, 372, 427
Cox, V.C. 130, 258
Crandall, P.H. 243, 323
Crowell, A. 424
Crystal, T.H. 131
Dardano, J.D. 306
Das, G.D. 97, 248
Davison, P.F. 8, 84, 209, 210
Dennis, J.B. 31, 32
Dickson, J.F. 216
Dietlein, L.F. 186
Diffley, M. 49
Dillow, P.V. 274
Doggenweiler, C.F. 132
Dore, E.K. 373
Dunn, G. 14
Durlach, N.I. 33, 126, 314, 374
Ebert, P.M. 259
Eden, M. 34, 67, 375
Edwards, T.M. 382
Eigen, M. 35
Eldred, E. 376
Elul, R. 243
Engel, R. 267
<table>
<thead>
<tr>
<th>Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lee, H.B.</td>
<td>168</td>
</tr>
<tr>
<td>Lee, Y.W.</td>
<td>177,178</td>
</tr>
<tr>
<td>Lehninger, A.L.</td>
<td>179</td>
</tr>
<tr>
<td>Lettvin, J.Y.</td>
<td>59,76,101,320,391</td>
</tr>
<tr>
<td>Little, M.S.</td>
<td>61</td>
</tr>
<tr>
<td>Liu, B.</td>
<td>180</td>
</tr>
<tr>
<td>Liu, C.K.</td>
<td>120</td>
</tr>
<tr>
<td>Mc Culloch, W.S.</td>
<td>58,59,181,291</td>
</tr>
<tr>
<td>Mac Donald, J.S.</td>
<td>292</td>
</tr>
<tr>
<td>Mc Intyre, R.</td>
<td>196</td>
</tr>
<tr>
<td>Mahut H.</td>
<td>127</td>
</tr>
<tr>
<td>Malek, R.</td>
<td>40</td>
</tr>
<tr>
<td>Mandell, A.J.</td>
<td>182,183,184,293,294</td>
</tr>
<tr>
<td></td>
<td>295,296,322,323,392,419</td>
</tr>
<tr>
<td>Mandell, M.P.</td>
<td>293,294,296,392</td>
</tr>
<tr>
<td>Mark, R.C.</td>
<td>269</td>
</tr>
<tr>
<td>Martin, R.C.</td>
<td>393</td>
</tr>
<tr>
<td>Martin, W.L.</td>
<td>393</td>
</tr>
<tr>
<td>Marvin, S.</td>
<td>14</td>
</tr>
<tr>
<td>Matthew, J.</td>
<td>378</td>
</tr>
<tr>
<td>Matthews, G.H.</td>
<td>62,185,297,394,395</td>
</tr>
<tr>
<td>Matthews, T.J.</td>
<td>19</td>
</tr>
<tr>
<td>Maultsby, R.L.</td>
<td>186,298,299</td>
</tr>
<tr>
<td>Meehan, J.P.</td>
<td>161</td>
</tr>
<tr>
<td>Mehler, W.R.</td>
<td>303</td>
</tr>
<tr>
<td>Melnechuk, T.</td>
<td>330</td>
</tr>
<tr>
<td>Melzack, R.</td>
<td>187,188,252</td>
</tr>
<tr>
<td>Mendell, L.M.</td>
<td>63</td>
</tr>
<tr>
<td>Mendelson, J.</td>
<td>190</td>
</tr>
<tr>
<td>Menyuk, P.</td>
<td>64,65,66</td>
</tr>
<tr>
<td>Mermelstein, P.</td>
<td>67</td>
</tr>
<tr>
<td>Migler, B.</td>
<td>68,69</td>
</tr>
<tr>
<td>Mishkin, M.</td>
<td>319</td>
</tr>
<tr>
<td>Miyada, D.S.</td>
<td>124</td>
</tr>
<tr>
<td>Moore, J.W.</td>
<td>76</td>
</tr>
<tr>
<td>Moore, R.S.</td>
<td>121,125,256,284,367,368,</td>
</tr>
<tr>
<td></td>
<td>369,371</td>
</tr>
<tr>
<td>Morgan, R.</td>
<td>424</td>
</tr>
<tr>
<td>Mori, K.</td>
<td>413</td>
</tr>
<tr>
<td>Morowitz, H.J.</td>
<td>70</td>
</tr>
<tr>
<td>Morris, J.</td>
<td>61</td>
</tr>
<tr>
<td>Moses, J.</td>
<td>300</td>
</tr>
<tr>
<td>Murawski, B.J.</td>
<td>301</td>
</tr>
<tr>
<td>Nakamura, R.M.</td>
<td>122,123,124,370,426</td>
</tr>
<tr>
<td>Nauta, W.J.H.</td>
<td>71,302,303,304</td>
</tr>
<tr>
<td>Neff, W.F.</td>
<td>396,420</td>
</tr>
<tr>
<td>Nelson, D.E.</td>
<td>305</td>
</tr>
<tr>
<td>Nelson, W.</td>
<td>382</td>
</tr>
<tr>
<td>Newton, J.E.O.</td>
<td>75,191,197,310</td>
</tr>
<tr>
<td>Niessen, C.W.</td>
<td>192</td>
</tr>
<tr>
<td>Ogilvie, R.D.</td>
<td>249</td>
</tr>
<tr>
<td>Ojemann, R.G.</td>
<td>72</td>
</tr>
<tr>
<td>Oppenheim, A.V.</td>
<td>73,193</td>
</tr>
<tr>
<td>Orme-Johnson, D.</td>
<td>306,307</td>
</tr>
<tr>
<td>Pankau, J.W.</td>
<td>40</td>
</tr>
<tr>
<td>Panofsky, H.</td>
<td>49</td>
</tr>
<tr>
<td>Parente, R.B.</td>
<td>308</td>
</tr>
<tr>
<td>Peake, W.T.</td>
<td>412</td>
</tr>
<tr>
<td>Perdriel, G.</td>
<td>332</td>
</tr>
<tr>
<td>Perez-Cruet, J.</td>
<td>13,14,27,74,75,109,191,194,195,196,197,309,310,307,398,399</td>
</tr>
<tr>
<td>Pfaff, D.W.</td>
<td>198</td>
</tr>
<tr>
<td>Pfeiffer, R.R.</td>
<td>174,199,285,311</td>
</tr>
<tr>
<td></td>
<td>355,400</td>
</tr>
<tr>
<td>Pickard, W.F.</td>
<td>59,76,312,320</td>
</tr>
<tr>
<td>Pineda, A.</td>
<td>401</td>
</tr>
<tr>
<td>Pittendrigh, C.S.</td>
<td>200,201,313</td>
</tr>
<tr>
<td>Pitts, G.</td>
<td>223,382</td>
</tr>
<tr>
<td>Pitts, W.</td>
<td>59</td>
</tr>
<tr>
<td>Pliskoff, S.S.</td>
<td>1,15,196,403</td>
</tr>
<tr>
<td>Plumlee, L.A.</td>
<td>310</td>
</tr>
<tr>
<td>Pooler, J.</td>
<td>76</td>
</tr>
<tr>
<td>Postal, P.M.</td>
<td>57</td>
</tr>
<tr>
<td>Quastler, H.</td>
<td>421,425</td>
</tr>
<tr>
<td>Rabiner, L.R.</td>
<td>314</td>
</tr>
<tr>
<td>Radulovacki, M.</td>
<td>363</td>
</tr>
<tr>
<td>Ramon-Moliner, E.</td>
<td>304</td>
</tr>
<tr>
<td>Red Thunder Cloud</td>
<td>395</td>
</tr>
<tr>
<td>Reinberg, A.</td>
<td>153,315,332</td>
</tr>
<tr>
<td>Rhodes, J.M.</td>
<td>410</td>
</tr>
<tr>
<td>Richards, A.G.</td>
<td>77</td>
</tr>
<tr>
<td>Richards, W.A.</td>
<td>316,317</td>
</tr>
<tr>
<td>Richardson, W.K.</td>
<td>393</td>
</tr>
<tr>
<td>Roberts, A.P.</td>
<td>125,256,367,371</td>
</tr>
<tr>
<td>Roberts, E.</td>
<td>78</td>
</tr>
<tr>
<td>Roberts, R.B.</td>
<td>79,80</td>
</tr>
<tr>
<td>Roberts, R.P.</td>
<td>369</td>
</tr>
<tr>
<td>Robertson, J.D.</td>
<td>202</td>
</tr>
<tr>
<td>Robinson, B.W.</td>
<td>318,319</td>
</tr>
<tr>
<td>Rodnick, J.</td>
<td>293,294,296,392</td>
</tr>
<tr>
<td>Rojas, E.</td>
<td>320</td>
</tr>
<tr>
<td>Rojas, J.A.</td>
<td>111</td>
</tr>
<tr>
<td>Rosenbaum, P.S.</td>
<td>404</td>
</tr>
<tr>
<td>Rosenblith, W.A.</td>
<td>321</td>
</tr>
<tr>
<td>Ross, G.</td>
<td>5</td>
</tr>
<tr>
<td>Rubin, R.T.</td>
<td>183,184,293,294,295</td>
</tr>
<tr>
<td></td>
<td>296,322,323,392,419</td>
</tr>
<tr>
<td>Rudel, R.G.</td>
<td>324,345</td>
</tr>
<tr>
<td>Runge, W.</td>
<td>382</td>
</tr>
</tbody>
</table>
Sachs, M.B. 81,175
Savage, J.E. 203
Schetzen, M. 82,175,177,204,205,206
Schiller, P.H. 207,255,325,326
Schlechte, F.R. 423
Schmitt, F.O. 83,84,208,209,210,327,328,329,330,405,406
Schmitt, O.H. 223,382
Schneider, G.E. 211
Schramm, S. 251
Schuster, C. 377
Schwartz, M. 331
Seaman, G. 267
Sebesta, P.D. 223,382
Sekuler, R. 212
Sheff, R. 293,294,296,392
Sherman, J.A. 222
Shipley, J.W. 146
Siebert, W.M. 213
Siffre, M. 153,315,332
Silverstein, A.M. 16
Simon, W. 214
Sklar, J.R. 85
Sling, R. 332
Smith, N. 382
Smith, M.C. 207,326
Snyder, D.L. 215
Spooner, C.E. 333,413
Squire, L.R. 334
Stack, L. 216
Stein, J.J. 370
Stein, M. 49
Stephens, G. 217
Stephens, G.C. 86
Stephens, G.J. 86
Stephens, P. 161,417
Stickney, R.E. 428
Stokes, L.W. 108
Streeter, J. 423
Streumwasser, F. 335,422,423
Stubbs, A. 336,344,407
Swank, R. 267
Swanson, L.E. 388
Switalski, D. 275
Takata, M. 76
Taplin, G.V. 373
Tapp, J.W. 87
Taub, A. 88,218
Teas, D.C. 89
Thomas, E.C. 176
Thomas, J.R. 222,336,343,344,407
Tolliner, G. 14
Tong, Y.L. 383
Tremor, J.W. 223,382
Tretiak, O.J. 224
Truljle, G.H. 225
Trumbule, G. 278
Tuma, N. 424
Twitchell, T. 226,227,228,324,345
Ungar, F. 37,144,151
Valenstein, E.S. 90,91,92,130,229,230,258,346,408,409
Valenstein, T. 92
Van Pilsum, J.F. 93
Van Tolier, C. 52,159
Van Trees, H.L. 105,231,347,348
Van Zytveld, J. 18
Vaughan, E.G. 232
Walk, R.D. 349,350,351
Wall, P.D. 63,188,233
Walsh, J.T. 127
Walter, D.O. 244,410
Walter, R.D. 243
War, W.B. 174,285
Wasserman, G.S. 352
Watanabe, T. 176
Weber, M.L. 230
Weiss, P.A. 234
Weiss, T.F. 411
Weksel, W. 104
Wickelgren, W. 102,235,236,237,238,239,240,353,354
Wiederhold, M.L. 412
Wiener, F.M. 55
Winters, W.D. 333,413
Wozencraft, J.M. 356
Wyke, M. 241
Yamamoto, S. 428
Yarczower, M. 275
Yeargers, M. 424
Zimmerman, J. 377

-33-
ablation on a circadian pituitary adrenocorticotropic rhythm in C mice
ablations/Auditory discriminations affected by cortical abnormalities in motor development/Variations and acceleration/On the behavior of small animals under the space flight condition/accelerative conditions found in space travel/The behavior of small animal accessory superior-olivary nucleus of the cat/Binaural interaction in the estimation of continuous random processes/Bou Acentral probability generating station/
Acoustic similarity and intrusion errors in short-term memory/
acoustic stimuli from single units in the eighth nerve of the green frog acoustic stimuli on spontaneous spike discharges in auditory nerve fiber acoustic stimulus parameters/Efferent inhibition of auditory nerve responses (acoustics)Binaural interaction in the accessory superior-olivary nucleus (acoustics)Classification of response patterns of spike discharges for units (acoustics)Minimum detectable change in interaural time or intensity difference (acoustics)Note on binaural masking-level differences at high frequencies (acoustics)Stimulus coding in the auditory nerve and cochlear nucleus/
(acoustics)Time-intensity relations in binaural unmasking/
(acoustics)Auditory discriminations affected by cortical ablations/acquisition for the normative electroencephalographic reference library/acquisition of syntax: a critique of "contextual generalization"/On the ACTH induced increase in tryptophan turnover along induceable pathways/active use of grammar in speech perception/The activity cycle/Effects of adiurnal lighting and feeding on the rat's diurnal activity in chronic cats/Relationships of neuronal spike populations and activity in mouse kidney - an aspect of circadian periodic enzyme activity in the cochlear nucleus of anesthetized cats/Spike discharge pattern/activity in the diagnosis of urologic neoplasms/Urinary LDH (Lactic Dehydrogenase) activity/Rat retinal ganglion cells: receptive field organization and movement/rectal temperature and pinnal mitosis of starving, dehydrated activity/Transaminase activity in mouse kidney - an aspect of circadian adaptation level and metacontrast/Photoreceptor latency a-diurnal feeding/Rat's anticipation of diurnal and a-diurnal lighting and feeding on the rat's diurnal activity cycle/Effect of adrenal axis during rapid eye movement sleep in man/Activation of the pituitary adrenal axis in man/Rhinencephalic regulation of the pituitary adrenal corticosteroids, sleep deprivation and the EEG in normal men/Circadian
adrenal steroids and alpha frequency in the EEG: A demonstration/Daily
adrenal venous effluent of dogs/Variance spectra of corticosteroid in
Adrenocortical function in pathological emotional states/
adrenocorticotropic activity, rectal temperature and pinnal mitosis of s
adrenocorticotropic rhythm in C mice/Effect of cerebral ablation on a c
adult before, during and after her isolation under-ground for three mon
adult man during the two months of staying under-ground/Broad study of t
adult subjects before, during and after their isolation/Prolonged isolat
afferent fibres/Presynaptic hyperpolarization: A role for fine
afferent spectrum/The spinocervical tract: dorsal-column linkage, condu
afferent system/Local, segmental and supraspinal interaction with a dors
age/Arterial pressure in CBA mice as related to
agnosia/Some needed revisions of the classical views of
alimentary systems/A new model of
Alleviation of conditioned suppression/
alpha frequency in the EEG: A demonstration/Daily correlation of adrena
Alterations in perception after brain injury/
alternation and Hebb-Williams maze performance/Caudate, cortical, hippoc
alternation deficits produced by electrical stimulation on monkeys/Aspec
Alternation of rules in children's grammar/
alternation performance in patients with cerebral lesions/Delayed
altitude/Urinary bladder calculi formed in rats at
amnesia" in onetrial learning/A re-examination of "Prolonged retrograde
(amphibia)The evoked vocal response of the bullfrog/
amplitude in human blood/Cosinor-evaluation of circadian rhythm with low
Analog communication over randomly time-varying channels/
analysis - a potential tool for biometeorologists/Periodicity
analysis and memory/Cortical unit
analysis; longitudinal and transverse profiles of rhythms/Some aspects
analysis of baseline and Gemini flight GT-7 data with specification of o
analysis of brain wave records from Gemini flight "GT-7" and continuatio
analysis of complex behavioral repertoires under continuous environment
analysis of EEG tremor relationships in man/Correlation
analysis of electrophysiological data from auditory nerve fibers in cat/
analysis of neurophysiological data/Concepts of cerebral organization ar
analysis of psychosomatic disorders/Instrumental behavior and psychophy
analysis of some psychosomatic problems/Behavior stress and physiologica
analysis of steroid rhythms in data at equal or unequal intervals/Spect
analysis of systems characterized by nonlinear differential equations/Fu
Analysis of the structure of English language/
analysis of their physiologic and pathologic responses, including injury
analyzing variations in evoked responses/A method for
androgen-induced circaseptan desynchronization/Spectral resolution of lo
anesthesiology/The neurophysiology of
angle modulation/Optimum
animal behavior/Organic foundations of
Animal behavior and mental illness/
Animal behavior in fields of simulated gravity/
animal payload and integration with a sounding rocket/Development of a s
animals in a multi-enclosure programmed environment/Detecting and record
animals in a single experimental space/A combination lock for automatic
animals/Matters relating to the state of sleep in
animals under the accelerative conditions found in space travel/The beha
animals under the space flight conditions of accelerations)/(On the beha
antibacterial levels in the renal-lymph during treatment of pyelonephrit
a-periodically/Consummatory behavior in rats maintained

-35-
aplysia/Prolonged in vitro culture and autoradiographic studies of neuron
apparatus/An investigation of barley seedling growth responses to simulat
apparatus/Temperature effects on the peripheral auditory
application to telephone channels/Digital communication over fixed time-c
applications/A simple derivation of the coding theorem and some
approach and escape reactions to electrical stimulation of the brain/Inde
approach to the experimental analysis of some psychosomatic problems/Beha
Arithmetic behavior in chimpanzees/
arithmetic behavior/Synthesizing the components of
arrest with closed chest massage of classical conditioning reflexes/The e
arrest with closed chest massage on the EEG in dogs/The effect of cardiac
arrhythmia during panting/Sinus
arrhythmia/Systolic blood pressure changes during two beat sinus
arrhythmias/Peripheral versus central mechanisms in the conditioning of e
Arterial pressure in CBA mice as related to age/
arthropod preparation suitable for chronic electro-physiological, biochem
asymmetry in phrase structure grammars/A note on
Attenuation of aversive properties of peripheral shock by hypothalamic st
Attenuation of pupil response during binocular rivalry/
Attitudinal reflexes/
auditory apparatus/Temperature effects on the peripheral
auditory cortex/Evoked responses from the
auditory cortex/Responses of single units in the
auditory discrimination/Experimental studies of
Auditory discriminations affected by cortical ablations/
auditory masking. Effect of masking intensity/Physiological observations
auditory meatus of the cat/On the sound pressure transformation by the he
auditory neurons/Some implications of the stochastic behavior of primary
auditory nerve and cochlear nucleus/Stimulus coding in the
auditory nerve/Discharge patterns of single fibers in the cat's
auditory nerve fibers/Effect of acoustic stimuli on spontaneous spike dis
auditory nerve fibers in cat/A statistical analysis of electrophysiologic
auditory nerve fibers/Probabilities with spike discharge in
auditory nerve responses: dependence on acoustic stimulus parameters/Eff
auditory system/A model of the peripheral
auditory threshold/Effect of very low frequency tones on
automatic programming/A pulser device for
automatic programming of two animals in a single experimental space/A com
Autoradiographic and implantation studies of sex hormones/
Autoradiographic in histological studies of postnatal neurogenesis/
Autoradiographic examination of behaviorally induced changes in the prote
autoradiographic studies of neurons in aplysia/Prolonged in vitro culture
averaging data during stimulus generalization/Effects of
aversive properties of peripheral shock by hypothalamic stimulation/Atten
avian brain/Distribution of monoamines and regional uptake of DL-norepine
avoidance behavior/Electroencephalographic correlates of temporally space
avoidance behavior in the rhesus monkey/Concurrent measurement of heart r
avoidance behavior under 24-hour control experiment/Second order
Avoidance of a return to the first component of a chain from the terminal
avoidance with the chimpanzee/A note on time out from
axon/Caesium ions do not pass the membrane of the giant
axon membrane/A theory of passive ion flux through
axon protein/Chemical, structural, and immunological studies of nerve
backward masking as a function of relative overlap and intensity of test
backward masking/A comparison of forward and backward masking/Some dielectric and electro-optic properties of BaTiO3 single crystals/Some dielectric and electro-optic properties of BaTiO3 single crystals/barley seedling growth responses to simulated weightlessness induced by t barium compound/basal blood pressures in unanesthetized dogs using the ring-catheter tech baseline and Gemini flight GT-7 data with specification of on-line comput (behavior)A comparison of forward and backward masking/behavior and conditioned fear/Timing behavior and mental illness/Animal behavior and psychophysiological change: A comparative approach to the e behavior as a function of amount of reinforcement/Timing behavior by stimulus change/Disruption of punished and non-punished behavior)Curiosity in the hamster/behavior during interval schedules/Observing behavior/Effects of deprivation conditions upon the rat's home cage behavior/Electroencephalographic correlates of temporally spaced respondi behavior in chimpanzees/Arithmetic behavior in fields of simulated gravity/Animal behavior in rats maintained a-periodically/Consummatory behavior in the rhesus monkey/Concurrent measurement of heart rate and in (behavior)Macromolecular conformation changes as possible information pro behavior of animals in a multi-enclosure programmed environment/Detecting behavior of neuronal populations during sleep and mental states/The coope behavior of primary auditory neurons/Some implications of the stochastic behavior of small animals under the accelerative conditions found in spac behavior of small animals under the space flight conditions of accelerati behavior/Organic foundations of animal behavior/Programmed environments for the experimental analysis of behavior/Psychophysiology of emotional (behavior)Rate change effects during a pre-schedule change stimulus (behavior)Rate change effects with equal potential reinforcements during Behavior stress and physiological change: A comparative approach to the behavior/Synthesizing the components of arithmetic behavior under 24-hour control experiment/Second order avoidance behavioral consequences of frontal-lobe lesions in rodents, carnivores an Behavioral influences on the utilization of (3H) leucine by the brain/ behavioral repertoires/An experimental outline for building and exploring behavioral repertoires under continuous environmental control/Experimenta behavioral study/An arthropod preparation suitable for chronic electrophy behaviorally induced changes in the protein and nucleic acid metabolism o bibliography/Glia bibliography/Memory bilateral hippocampal lesions/Tactually-guided maze learning in man: eff bilingually/Reading and talking binaural masking-level differences at high frequencies/Note on Binaural interaction in the accessory superior-olivary nucleus of the cat binaural unmasking and the EC model/Further results on binaural unmasking/Time-intensity relations in binocular rivalry/Attenuation of pupil response during bioassay of renin/A simplified method for the extraction and bioassay of renin from kidneys of sodium-depleted and sodium-loaded rats/ bioastronautics/Physiologic rhythms and biochemical and behavioral study/An arthropod preparation suitable for ch Biochemical aspects of rapid eye movement sleep/bioelectric potentials in an inhomogeneous volume conductor/On bioelectric signals/A simple time-division multiplexing system for low-fr
Biologic data analysis; longitudinal and transverse profiles of rhythms

biologic rhythms/Computer techniques in the study of

Biological clocks - the functions, ancient and modern of circadian oscillator

biological problems to be attacked with a series of U.S. satellites in 19

biological systems/Chemical means of information storage and readout in

biology/Memory storage and low-temperature biology

biology - where do they meet?/Physics and biometeorologists/Periodicity analysis - a potential tool for

(biophysics)On bioelectric potentials in an inhomogeneous volume

(biorhythm)Biological clocks - the functions, ancient and modern of circadian oscillator

(biorhythm)Circadian rhythmic pituitary adrenocorticotropic activity, rec

(biorhythm)Cosinor-evaluation of circadian rhythm with low amplitude in h

(biorhythm)Effects of cerebral ablation on a circadian pituitary adrenocorticotropic activity

(biorhythm)Physiological rhythms/

(biorhythm)Physiologic rhythms and bioastronautics/

(biorhythm)Rat's anticipation of diurnal and a-diurnal feeding/

(biorhythm)Some aspects of biologic data analysis; longitudinal and transverse profiles of rhythms

(biorhythm)Spectral resolution of low-frequency, small-amplitude rhythms

(biorhythm)Variability of physiologic circadian crests in groups of child

(biorhythm)Electronic computer techniques for the study of endocrine rhythms

(biorhythms)Periodicity analysis - a potential tool for biometeorologists

Biosatellite performance simulations/

(bird)A stereotaxic atlas of the brain of the pigeon/

(bird)Broad study of the circadian rhythm of chickens with alternating sl

(bird)Projections of optic tectum of the pigeon (Columba livia)/

bladder calculi formed in rats at altitude/Urinary bladder calculogenesis/The effect of megavoltage, total body irradiation

bladder cancer using local bladder hyperthermia/The enhancement of region

blinded fiddler crab: an invertebrate model of circadian desynchronization

blood/Cosinor-evaluation of circadian rhythm with low amplitude in human

Blood pressure and heart rate changes during sinus arrhythmia/

Blood pressure and heart rate changes in dogs during hypothalamic self-stimulation

blood pressure changes during two beat sinus arrhythmia/Systolic blood pressure in unanesthetized dogs using the ring-catheter technique

blood pressure response to social stress/Role of early experience in dete

Brain and nerve proteins: functional correlates/

brain-aspects of quantitative organization/Mammillary complex of cat

(brain)Auditory discriminations affected by cortical ablations/

brain/Autoradiographic examination of behaviorally induced changes in the brain/Behavioral influences on the utilization of (3H) leucine by the brain/

(brain)Cerebral localization and organization/

brain/Distribution of monoamines and regional uptake of DL-norepinephrine

brain function/Molecular correlates of

brain/Independence of approach and escape reactions to electrical stimuli

brain injury/Alterations in perception after

brain injury/The lesson of focal

brain lesions and memory changes/Correlations between specific human

(brain)Minimal cerebral dysfunction in children: motor deficits/

brain/Molecular and ultrastructural correlates of function in neurons, ne

brain of the pigeon/A stereotaxic atlas of the brain/Postnatal origin of microneurons in the rat

brain/Quantitative neuroanatomic studies implemented by ultrasonic lesion

(brain)Rate of intracranial self-stimulation as a function of reinforcement

brain stem/The isodendritic core of the Brain stimulation/

Brain stimulation/Continuous opportunity for reinforcing

brain stimulation/Motivational properties of long durations of rewarding
brain stimulation/Problems of measurement and interpretation with reinfor 90
brain stimulation/The effects of mesencephalic central grey lesions on re 258
brain stimulation/The medial forebrain bundle-lateral hypothalamic area a 346
brain structures and functions related to memory/Some 71
brain structures/Methods for completely deciphering the neuronal circuitr 143
brain that ink may character?/What's in the 181
brain tissue/Neurophysiological correlates of information transaction an 416
brain wave records from Gemini flight GT-7 and computation to be used in 358
Brightness and pattern discrimination deficits after lesions of nucleus 277
Brightness enhancement in intermittent light; variation of luminance an 352
building and exploring multi-operant behavioral repertoires/An experimen 4
bulbocapnine/Cardio-respiratory components of conditional catalepsy to 397
bullfrog/The evoked vocal response of the 113
bundle-lateral hypothalamic area and reinforcing brain stimulation/The m 346

Caesium ions do not pass the membrane of the giant axon/ 76
calculi formed in rats at altitude/Urinary bladder 124
calculogenesis/The effect of megavoltage, total body irradiation on expe 122
cancer reevaluated by electronic computer programs - evidence for tempor 379
cancer using local bladder hyperthermia/The enhancement of regional blad 370
cardiac arrest with closed chest massage on classical conditioning refle 27
cardiac conditional reflexes/The cardiodynamics of 309
cardiodynamics of cardiac conditional reflexes/The 309
Cardio-respiratory components of conditional catalepsy to bulbocapnine/ 397
cardiovascular and visuomotor studies relating to spatial orientation in 414
Cardiovascular responses to novel and conditional stimuli evaluated by s 191
carnivores and primates/Some behavioral consequences of frontal-lobe les 341
Carroll's "Language and Thought"/Review of 139
cat/A statistical analysis of electrophysiological data from auditory ne 266
catalepsy to bulbocapnine/Cardio-respiratory components of conditional 397
Catawba texts/ 395
cat/Binaural interaction in the accessory superior-olivary nucleus of th 154
cat brain - aspects of quantitative organization/Mammillary complex of 263
cat brain/Quantitative neuroanatomic studies implemented by ultrasonic 1 40
cat/Hypertonic urea: its effects on cortical and sub-cortical evoked po 401
cat/On the sound pressure transformation by the head and auditory meatus 355
(cat)Response of single dorsal cord cells to peripheral cutaneous unmyel 189
(cat)The spinocervical tract: dorsal-column linkage, conduction velocit 218
cat's auditory nerve/Discharge patterns of single fibers in the 176
cats/Relationships of neuronal spike populations and EEG activity in chr 251
cats/Spike discharge pattern of spontaneous and continuously stimulated 199
caudate, cortical, hippocampal and dorsal thalamic lesions in rats: alt 148
CBA mice as related to age/Arterial pressure in 161
cell membrane/Staining properties of lanthanum on 132
cell membranes/The role of water structures in the molecular organizatio 51
cells of the rat/Dendritic fields of retinal ganglion 110
cells: receptive field organization and maintained activity/Rat retinal 111
cells to peripheral cutaneous unmyelinated fibers/Response of single dor 189
Cellular regulatory mechanisms/ 8
central grey lesions on responses to reinforcing brain stimulation/The e 258
central mechanisms in the conditioning of ectopic arrhythmias/Peripheral 74
central nervous, cardiovascular and visuomotor studies relating to spati 414
central nervous monitoring in performing subjects/Electrode problems in 385
central nervous system function/Mathematical concepts of 216
Central nervous system: motor mechanisms/ 376
central nervous system/Processing and transmitting information through t 155
cerebral ablation on a circadian pituitary adrenocorticotropic rhythm in 144
cerebral dysfunction in children: motor deficits/Minimal cerebral lesions/Delayed alternation performance in patients with Cerebral localization and organization/
cerebral responses in man/Functional relations between stimulus intensit
cerebral tissue in alerting, orienting and discriminative responses/Intr
cerebral tissue in transaction and storage of information/The organizati
chain from the terminal component/Avoidance of a return to the first com
change: A comparative approach to the experimental analysis of some psy
change effects during a pre-schedule change stimulus/Rate
change effects with equal potential reinforcements during the "warning s
changes as possible information processing mechanisms/Macromolecular con
channel interference/Orthogonal detection to reduce common
channels/Analogue communication over randomly time-varying
channels/Error bounds for parallel communication
channels with memory-with special application to telephone channels/Digi
character?/What's in the brain that ink may
chemical correlates of function/The synapse: morphological and
Chemical means of information storage and readout in biological systems/
Chemical, structural, and immunological studies of nerve axon protein/
chest massage on classical conditioning reflexes/The effect of cardiac a
chest massage on the EEG in dogs/The effect of cardiac arrest with close
chickens with alternating sleepwakefulness and of the estimation of time
children from preschool through first grade/Syntactic rules used by
children: motor deficits/Minimal cerebral dysfunction in
children studied "transversely"/Variability of physiologic circadian cre
children with functionally deviant and normal speech/Comparison of gramm
children's grammar/Alternation of rules in
chimpanzee/A note on time out from avoidance with the
(chimpamzee)Facilitation of large ratio performance by use of conditione
chimpanzee/Strategies of schedule preference in the
chimpanzees/Arithmetic behavior in
chronic basal blood pressures in unanesthetized dogs using the right-cath
chronic cats/Relationships of neuronal spike populations and EEG activit
chronic electrophysiological, biochemical and behavioral study/An arthro
circadian crests in groups of children studied "transversely"/Variabilit
circadian desynchronization/The blinded fiddler crab: an invertebrate m
circadian oscillation in Drosophilia pseudoobscura pupae: a model for th
circadian oscillations/Biological clocks - the functions, ancient and mo
circadian periodic enzyme activity/Transaminidase activity in mouse kidn
circadian periodicity, adrenal corticosteroids, sleep deprivation and th
Circadian phase diagrams of oral temperature and urinary functions in a
circadian pituitary adrenocorticotropic rhythm in C mice/Effect of cereb
circadian rhythm in hepatic glycogen of mice during inanition and dehydr
circadian rhythm of chickens with alternating sleepwakefulness and of th
circadian rhythm with low amplitude in human blood/Cosinor-evaluation of
Circadian rhythmic pituitary adrenocorticotropic activity, rectal temper
circadian rhythms for space flight/Significance of
Circadian rhythms in man/
circadian rhythms of C mice/Phase difference tests - longitudinal and tr
Circadian rhythms, space research and manned space flight/
Circadian system-phase - an aspect of temporal morphology; procedures a
Circadian system-phase dependent toxicity and other effects of SU-4885 i
circadian systems; temporal analysis of their physiologic and pathologi
circadian temperature rhythm in the rat kept in continuous light of 30 l
circaseptan desynchronization/Spectral resolution of low-frequency, smal
classical conditioning reflexes/The effect of cardiac arrest with closed
classical views of agnosia/Some needed revisions of the
classification of response patterns of spike discharges for units in the
clock/The circadian oscillation in Drosophila pseudoobscura pupae: a mo
clocks - the functions, ancient and modern, of circadian oscillations/Bi
C mice/Circadian rhythmic pituitary adrenocorticotropic activity, rectal
C mice/Effect of cerebral ablation on a circadian pituitary adrenocortic
C mice/Phase difference tests - longitudinal and transverse - on circadi
cochlea/Spontaneous spike discharge from single units in the cochlear nu
cochlear nucleus/Stimulus coding in the auditory nerve and
cochlear nucleus after destruction of the cochlea/Spontaneous spike disc.
cochlear nucleus of anesthetized cats/Spike discharge patterns of sponta
cochlear nucleus/Stimulus coding in the
cochlear nucleus: tone-burst stimulation/Classification of response patt
cochlear nucleus: Waveforms of extracellularly recorded spike potential
cockroach gauged by variance spectra/Oxygen uptake rhythms in a
codes/Concatenated
codes/Note on recurrent
Coding color pictures/
coding/Digital picture
coding in the cochlear nucleus/Stimulus
coding in neuronal memory/On the nature of macromolecular
coding in the auditory nerve and cochlear nucleus/Stimulus coding in the
coding/Modulation and demodulation for probabilistic
coding/On retina-cortex connections and DNA
coding theorem and some applications/A simple derivation of the
color pictures/Coding
(Columba livia)/Projections of optic tectum of the pigeon
coma by saccharin/The potentiation of insulin
Combination lock for automatic programming of two animals in a single ex
communication channels/Error bounds for parallel
communication over fixed time-continuous channels with memory - with spe
communication over randomly time-varying channels/Analog
comparative approach to the experimental analysis of psychosomatic disor
comparative approach to the experimental analysis of some psychosomatic
comparison of forward and backward masking/A
Comparison of grammar of children with functionally deviant and normal s
comparison of optimum angle modulation systems and rate-distortion bound
Comparison of spatial discrimination in the temporal and nasal sectors o
complex of cat brain - aspects of quantitative organization/Mammillary
component of a chain from the terminal component/Avoidance of a return t
components of arithmetic behavior/Synthesizing the
computation facility for education and research/A multiuser
computation problem with sequential decoding/The
computation to be used in a 30 day primate flight/Analysis of brain wave
computations/One-tape, off-line turing machine
computations/On-line turing machine
(computer)Analog communication over randomly time-varying channels/
(computer)Concatenated codes/
(computer)Distributed solution of network programming problems/
(computer)Note on application of the EC model to interaural JND's/
computer program/Word-recognition
computer programs - evidence for temporal pathology/Mitotic rhythms in h
computer recognition of connected handwritten words/Experiments on
(computer)Technical details of data acquisition for the normative electr
computer techniques for the study of endocrine rhythms/Electronic
Computer techniques in the study of biologic rhythms/
computers in temporal pathology - an analogy to microscopy/Resolving pow
correcting requirements/Analysis of baseline and Gemini flights GT-7 data
Concatenated codes/
concepts of central nervous system function/Mathematical
Concepts of cerebral organization arising from time series analysis of n
conditional catalysis to bulbocapnine/Cardio-respiratory components of
conditional reflexes/The cardiodynamics of cardiac
conditional stimuli evaluated by successive beats/Cardiovascular respons
conditioned fear/Timing behavior
conditioned reinforcement/Facilitation of large ratio performance by use
conditioned reinforcing stimuli/Enhancement of fixed-ratio performance b
conditioned suppression/Alleviation of
conditioned suppression/The effect of discrimination training on general
conditioning of ectopic arrhythmias/Peripheral versus central mechanisms
conditioning reflexes/The effect of cardiac arrest with closed chest mas
conditioning studies/A device for the partial restraint of rats in opera
conditioning to paired stimuli in man/Some observations on evoked respon
conditioning with hypothalamic stimulation as an unconditional stimulus/
conferences, divergences, lacunae/Summation:
conflicting and inaccurate observations/Decisions based on
conformation changes as possible information processing mechanisms/Macro
congenital encephalopathy/Unusual sensory status in
consciousness by EEG measurements -- a study of four subjects/Discrimina
consonant-vowel diagrams/Similarity and intrusions in short-term memory
Consummatory behavior in rats maintained a-periodically/
"contextual generalization"/On the acquisition of syntax: a critique of
continuous random processes/Bounds on the accuracy attainable in the est
control experiment/Second order avoidance behavior under 24 hour
control/Experimental analysis of complex behavioral repertoires under co
control of temporally spaced responding by a repetitive stimulus/
control of temporally spaced responding in second order schedules/Stimul
controversial questions in phonological theory/Some
cooperative behavior of neuronal populations during sleep and mental sta
coordination/Plasticity in sensorimotor
cord cells to peripheral cutaneous unmyelinated fibers/Response of singl
core of the brain stem/The isodendritic
correlates of brain function/Molecular
correlates of function in neurons, neuronal nets, and the brain/Molecu
 correlates of information transaction and storage in brain tissue/Neuro
correlates of temporally spaced responding and avoidance behavior/Electr
Correlation analysis of EEG tremor relationships in man/
correlation functions/Measurement of
correlates/Brain and nerve proteins: functional
correlation of adrenal steroids and alpha frequency in the EEG: A demon
Correlations between specific human brain lesions and memory changes/
cortex connections and DNA coding/On retina
cortex/Evoked responses from the auditory
cortex/Responses of single units in the auditory
cortical ablations/Auditory discriminations affected by
cortical and subcortical evoked potentials in cat/Hypertonic urea; its
cortical excisions and bilateral hippocampal lesions/Tactually-guided ma
cortical, hippocampal and dorsal thalamic lesions in rats: alteration
Cortical unit analysis and memory/
corticosteroid in adrenal venous effluent of dogs/Variance spectra of
Corticosteroid responses to limbic stimulation in man: localization of
corticosteroids, sleep deprivation and the EEG in normal men/Circadian p
Cosinor evaluation of circadian rhythm with low amplitude in human blood crab: an invertebrate model of circadian desynchronization/The blinded crests in groups of children studies""transversely"/Variability of physi critque of "contextual generalization"/On the acquisition of syntax: a critique of Wittgenstein/Operationalism and ordinary language, a cross-optic transfer of habituated responses in limulus/Test of crystal/Some dielectric and electro-optic properties of BaTiO3 single ± C, T networks/Bounds on impedance functions of R, + 1, culture and autoradiographic studies of neurons in alysia/Prolonged in cube/Resistance of an N-Dimensional Curiosity in the hamster/ cutaneous afferent system/Local, segmental and supraspinal interaction w cutaneous unmyelinated fibers/Response of single dorsal cord cells to pe cybernetic unit: a biochemist's fantasy/The synapse as a cycle/Effects of adiurnal lighting and feeding on the rat's diurnal act data acquisition for the normative electroencephalographic reference lib data analysis; longitudinal and transverse profiles of rhythms/Some asp data at equal or unequal intervals/Spectral analysis of steroid rhythms data/concepts of cerebral organization arising from time series analysis data during stimulus generalization/Effects of averaging data from auditory nerve fibers in cat/A statistical analysis of electro data reference library/The normative electroencephalographic data with read-in jitter/Optimum prefiltering in sampled data with specification of on-line computing requirements/Analysis of ba death/Organisms as circadian systems; temporal analysis of their physio deciphering the neuronal circuitry of brain structures/Methods for compl decision making by man. I. Limitations on transmission rate in sequent decision making by man. II. Evidence of periodicity/Information on pro Decisions based on conflicting and inaccurate observations/ decoding/An experimental facility for sequential decoding/The computation problem with sequential decompression sickness - dysbarism/Patho-physiology of decompression sickness/Physiological factors in deficits after lesions of nucleus rotundus in the pigeon/Brightness and deficits produced by electrical stimulation on monkeys/Aspects of the de delay in reinforcement/Variables determining the effects of decomodulation for probabilistic coding/Modulation and demonstration of ion-exchange phenomena in phospholipid mono-molecular f demyelinating diseases/Research in dendrites/Impulses originating in the region of Dendritic fields of retinal ganglion cells of the rat/ density/Rate of intracranial self-stimulation as a function of reinforce density spectrum of television random noise/The power dependence of degree of difficulty/Machine depression/Transfer of habituation using spreading deprivation conditions upon the rat's home cage behavior/Effects of depth perception with the visual cliff/ Studying derivation of the coding theorem and some applications/A simple description/An integrated theory of linguistic desynchronization/Spectral resolution of low-frequency, small-amplitude desynchronization/The blinded fiddler crab: an invertebrate model of c Detection in metacontrast/ detection to reduce common channel interference/Orthogonal "developmental dysgraphia"/Serial order in writing: a study of misspell development/Variations and abnormalities in motor deviant and normal speech/Comparison of grammar of children with functio
device for automatic programming/A pulser
device for the partial restraint of rats in operant conditioning studies
diagnosis of renal ischemic hypertension/Measurement of oxygen tension a
diagnosis of urologic neoplasms/Urinary LDH (Lactic dehydrogenase) activ
diagrams of oral temperature and urinary functions in a healthy man stud
diagrams/Similarity and intrusions in short-term memory for consonant-vi
dielectric and electro-optic properties of BaTiO₃ single crystals/Some
differences at high frequencies/Note on binaural masking-level
differences tests- longitudinal and transverse - On circadian rhythms of
digital communication over fixed time-continuous channels with memory wi
digital and pairs of digits/Short-term recognition memory for single
diode/Statistics of switching-time jitter for a tunnel
diagnostic discharge patterns of single fibers in the cat's auditory nerve/
diagnostic discharge patterns of spontaneous and continuously stimulated activity i
discriminating among states of consciousness by EEG measurements -- a st
discrimination deficits after lesions of nucleus rotundus in the pigeon
discrimination/Experimental studies of auditory
discrimination following regeneration in planarians/Retention of a
discrimination in planarians/Evidence of right-left
discrimination in the temporal and nasal sectors of the monocular visual
discrimination of hefted weights; effect of stimulus duration/
discrimination of wines/Perceptual learning and the
discrimination/Superstitious chaining during temporal
discrimination training on generalization of conditioned suppression/The
discriminations affected by cortical ablations/Auditory
discriminative properties of fixed-ratio performance in the pigeon/Some
discriminative responses/Intrinsic organization of cerebral tissue in al
disease/Animal behavior and mental illness/
disease/Taxonomies of
disease/The renal lymphatics and therapy of pyelonephritis/
diseases/Research in demyelinating
Disorders of higher tactile and visual functions/
Distinctive features and errors in short-term memory for English vowels/
Distributed solution of network programming problems/
distribution of flow from orifices and tubes at high Knudson numbers/Ang
diurnal activity cycle/Effects of adiurnal lighting and feeding on the r
Diurnal and a-diurnal feeding/Rat's anticipation of
divergences, lacunae/Summation: Convergences
DL-norepinephrine-7-H³ in the avian brain/Distribution of monoamines and
dNA coding/On retina-cortex connections and
dogs during hypothalamic self-stimulation/Blood pressure and heart rate
dogs/The effect of cardiac arrest with closed chest massage on the EEG i
dogs using the ring-catheter technique/Chronic basal blood pressures in
dogs/Variance spectra of corticosteroid in adrenal venous effluent of
dorsal-column linkage conduction velocity, primary velocity, primary aff
dorsal cord cells to peripheral cutaneous unmyelinated fibers/Response o
dorsal thalamic lesions in rats: alternation and Hebb-Williams maze per
dorsolateral spinal cutaneous afferent system/Local, segmental and supra
dreaming sleep in man/Urinary excretion of 3-methoxy-4 hydroxymandelic a
dreaming sleep in man/Urine volume and osmolarity changes during
dreaming/The stress of
dreams and memory/Sleep, wakefulness
driving-point impedance functions/Some mapping properties of RC and RL
Drosophila pseudoobscura pupae: a model for the photoperiodic clock/The
drug injections/A method for training unrestrained primates to receive
duration/Discrimination of hefted weights; effect of stimulus

dysbarism/Patho-physiology of decompression sickness -
dysfunction in children: motor deficits/Minimal cerebral
dysgraphia"/Serial order in writing: a study of misspelled words in "de

EC model/Further results on binaural unmasking and the
EC model to interaural JND's/Note on application of the
ectopic arrhythmias/Peripheral versus central mechanisms in the condition
education and research/A multiuser computation facility for
EEG activity in chronic cats/Relationships of neuronal spike populations
EEG: A demonstration/Daily correlation of adrenal steroids and alpha fr
EEG in dogs/The effect of cardiac arrest with closed chest massage on th
EEG in normal men/Circadian periodicity, adrenal corticosteroids, sleep
EEG patterns in sleep and wakefulness in monkeys/Effect of interhemisphe
EEG sleep patterns/A simple electronic method for graphing
EEG tremor relationships in man/Correlation analysis of
Effect of acoustic stimuli on spontaneous spike discharges in auditory n
Effect of cardiac arrest with closed chest massage on classical conditio
Effect of cardiac arrest with closed chest massage on the EEG in dogs/Th
Effect of cerebral ablation on a circadian pituitary adrenocorticotropic
effect of discrimination training on generalization of conditioned suppr
Effect of interhemispheric transection on the EEG patterns in sleep and
effect of masking intensity/Physiological observations of auditory maski
effect of megavoltage, total body irradiation on experimental bladder ca
effect of novel stimuli on renal secretion collected by the ureteral-shu
effect of person on heart rate in monkeys/The
effect of stimulus duration/Discrimination of hefted weights;
effect of two-dimensional pictorial noise/The subjective
Effect of very low frequency tones on auditory threshold/
effects during a pre-schedule change stimulus/Rate change
Effects of adiurnal lighting and feeding on the rat's diurnal activity c
Effects of averaging data during stimulus generalization/
effects of delay in reinforcement/Variables determining the
Effects of deprivation conditions upon the rat's home cage behavior/
effects of early sensory restriction/Neurophysiological
Effects of mesencephalic central grey lesions on responses to reinforcin
Effects of occipital lobe lesion on pattern vision/
effects of SU-4885 in mice/Circadian system-phase dependent toxicity and
Effects of unilateral cortical excisions and bilateral hippocampal lesio
effects on cortical and subcortical evoked potentials in cat/Hypertonic
effects on matching to sample performance/Stimulus change
effects on the peripheral auditory apparatus/Temperature
effects with equal potential reinforcements during the 'warning stimulus'
Efferent connections of the lentiform nucleus in the monkey/
Efferent inhibition of auditory nerve responses: dependence on acoustic
effluent of dogs/Variance spectra of corticosteroid in adrenal venous
Ejaculation evoked by stimulation of the preoptic area in monkey/
electrical stimulation as an unconditional stimulus/An attempt to condit
electrical stimulation of the brain/Independence of approach and escape
electrical stimulation on monkeys/Aspects of the delayed alternation def
Electrocardiographic conditioning with hypothalamic stimulation as an unc
Electrode problems in central nervous monitoring in performing subjects/
Electroencephalogram during orbital flight/
Electroencephalographic correlates of temporally spaced responding and a
electroencephalographic data reference library/The normative
electroencephalographic reference library/Technical details of data acqu
Electronic computer techniques for the study of endocrine rhythms/
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic method for graphing EEG sleep patterns/A simple</td>
<td>299</td>
</tr>
<tr>
<td>(electronics) A comparison of optimum angle modulation systems and rate-d</td>
<td>231</td>
</tr>
<tr>
<td>(electronics) An experimental facility for sequential decoding</td>
<td>192</td>
</tr>
<tr>
<td>(electronics) Another solid state timer</td>
<td>87</td>
</tr>
<tr>
<td>(electronics) A study of the performance of linear and nonlinear filters</td>
<td>17</td>
</tr>
<tr>
<td>(electronics) Bound on impedance functions of R, +L, +C, T networks</td>
<td>168</td>
</tr>
<tr>
<td>(electronics) Bounds on two-element-kind impedance functions</td>
<td>163</td>
</tr>
<tr>
<td>(electronics) Coding color pictures</td>
<td>45</td>
</tr>
<tr>
<td>(electronics) Digital communication over fixed time-continuous channels</td>
<td>53</td>
</tr>
<tr>
<td>(electronics) Discharge patterns of single fibers in the cat's auditory network</td>
<td>176</td>
</tr>
<tr>
<td>(electronics) Error bounds for parallel communication channels</td>
<td>259</td>
</tr>
<tr>
<td>(electronics) Experimental studies of handwriting signals</td>
<td>292</td>
</tr>
<tr>
<td>(electronics) Introduction to the problem of the reticular formation</td>
<td>291</td>
</tr>
<tr>
<td>(electronics) On the optimum quantization of stationary signals</td>
<td>28</td>
</tr>
<tr>
<td>(electronics) Optimum angle modulation</td>
<td>105</td>
</tr>
<tr>
<td>(electronics) Optimum prefiltering in sampled data with read-in-jitter</td>
<td>180</td>
</tr>
<tr>
<td>(electronics) Orthogonal detection to reduce common channel interference</td>
<td>131</td>
</tr>
<tr>
<td>(electronics) PCM picture transmission</td>
<td>164</td>
</tr>
<tr>
<td>(electronics) Resistance of an N-dimensional cube</td>
<td>224</td>
</tr>
<tr>
<td>(electronics) Some mapping properties of RC and RL driving-point impedances</td>
<td>166</td>
</tr>
<tr>
<td>(electronics) Some techniques for the synthesis of non-linear systems</td>
<td>253</td>
</tr>
<tr>
<td>Electro-optic properties of BaTiO₃ single crystal/Some dielectric and electrophysiological, biochemical and behavioral study/An arthropod prep</td>
<td>169</td>
</tr>
<tr>
<td>electrophysiological data from auditory nerve fibers in cat/A statistical elimination/Solution of systems of polynomial equations by</td>
<td>266</td>
</tr>
<tr>
<td>Emotion and the sensitivity of the psychoendocrine system</td>
<td>364</td>
</tr>
<tr>
<td>emotional states/Adrenocortical function in pathological</td>
<td>322</td>
</tr>
<tr>
<td>Emulsification of liquid monkey food</td>
<td>117</td>
</tr>
<tr>
<td>encephalopathy/Unusual sensory status in congenital</td>
<td>324</td>
</tr>
<tr>
<td>endocrine rhythms/Electronic computer techniques for the study of</td>
<td>152</td>
</tr>
<tr>
<td>energy/Minimizing the maximum signal</td>
<td>281</td>
</tr>
<tr>
<td>English language/Analysis of the structure of</td>
<td>424</td>
</tr>
<tr>
<td>English/On the role of linguistics in the teaching of</td>
<td>404</td>
</tr>
<tr>
<td>English vowels/Distinctive features and errors in short-term memory for</td>
<td>236</td>
</tr>
<tr>
<td>Enhancement of fixed-ratio performance by briefly presented conditioned environment/A long term study of human performance in a continuously pro</td>
<td>344</td>
</tr>
<tr>
<td>environmental/Detecting and recording the behavior of animals in a multi-e environmental control/Experimental analysis of complex behavioral reper</td>
<td>34</td>
</tr>
<tr>
<td>enzyme activity/Transamidinase activity in mouse kidney - an aspect of c enzyme and membrane systems/Supramolecular organization of</td>
<td>179</td>
</tr>
<tr>
<td>Enzyme induction and the psychosomatic hypothesis/</td>
<td>183</td>
</tr>
<tr>
<td>(enzyme) Urinary LDH (Lactic Dehydrogenase) activity in the diagnosis of equations by elimination/Solution of systems of polynomial equations/Functional analysis of systems characterized by nonlinear diff</td>
<td>290</td>
</tr>
<tr>
<td>Error bounds for parallel communication channels/</td>
<td>300</td>
</tr>
<tr>
<td>Error criteria based on the use of gate functions/Determination of opti errors in short-term memory/Acoustic similarity and intrusion</td>
<td>308</td>
</tr>
<tr>
<td>errors in short-term memory for English vowels/Distinctive features and escape and punishment situation/Simulated gravity(2g): The aversive stimulation reactions to electrical stimulation of the brain/Independence of estimation/Generalized SNR and performance index of filters for waveform estimation of continuous random processes/Bounds on the accuracy attained by estimation with special reference to 24-hour synchronized circadian rhythm</td>
<td>259</td>
</tr>
<tr>
<td>Evidence of right-left discrimination in planarians/</td>
<td>204</td>
</tr>
<tr>
<td>evoked cerebral responses in man/Functional relations between stimulus i evoked potentials in cat/Hypertonic urea: Its effects on cortical and s evoked responses in relation to temporal conditioning to paired stimuli</td>
<td>232</td>
</tr>
<tr>
<td></td>
<td>360</td>
</tr>
</tbody>
</table>
evoked responses/A method for analyzing variations in
evoked vocal response of the bullfrog/The
examination of behaviorally induced changes in the protein and nucleic a
excisions and bilateral hippocampal lesions/Tactually-guided maze learni
excretion: a polyvariable case study/Mood, motility and 17-hydroxycorti
excretion in man/Indolylacrolyl glycine
excretion of 3-methoxy-4-hydroxymandelic acid during dreaming sleep in m
(excretory system)Urinary reflux - the physician's dilemma/
experiment/Second order avoidance behavior under 24-hour control
experimental analysis of behavior/Programmed environments for the
Experimental analysis of complex behavioral repertoires under continous
experimental analysis of psychosomatic disorders/Instrumental behavior a
experimental analysis of some psychosomatic problems/Behavior stress and
Experimental basis of quantitative radiorenography for evaluating renal
experimental bladder calculogenesis/The effect of megavoltage, total body
experimental environment/A long-term study of human performance in a con
experimental facility for sequential decoding/An
experimental outline for building and exploring multi-operant behavioral
experimental space/A combination lock for automatic programming of two a
Experimental studies of auditory discrimination/
Experimental studies of handwriting signals/
Experiments on computer recognition of connected handwritten words/
experiments through motion picture films/Presentation of laboratory
exploring multi-operant behavioral repertoires/An experimental outline f
expressions for optimum linear filtering in white noise II./Some useful
extraction and bioassay of renin/A simplified method for the
Extraction and bioassay of renin from kidneys of sodium-depleted and sod
extrasystoles using direct myocardial electrical stimulation as an uncon
eye movement sleep/Biochemical aspects of rapid

Facilitation and inhibition in the visual system after photic stimulatio
Facilitation of large ratio performance by use of conditioned reinforcem
facilitation of short-term memory/Interlingual
facility for education and research/A multiuser computation
facility for sequential decoding/An experimental
Failure to train planarians reliably/
fear/Timing behavior and conditioned
feeding on the rat's diurnal activity cycle/Effects of adiurnal lighting
feeding/Rat's anticipation of diurnal and a-diurnal
female adult before, during and after her isolation underground for three
fibers/Effect of acoustic stimuli on spontaneous spike discharges in aud
fibers in cat/A statistical analysis of electrophysiological data from a
fibers in the cat's auditory nerve/Discharge patterns of single
fibers/On the propagation of the nervous impulse down medullated and unmy
fibers/Probabilities with spike discharges in auditory nerve
fibers/Response of single dorsal cord cells to peripheral cutaneous unmy
fibres/Presynaptic hyperpolarization: A role for fine afferent
fiddler crab: an invertebrate model of circadian desynchronization/The
fields of retinal ganglion cells of the rat/Dendritic
films/A demonstration of ion-exchange phenomena in phospholipid mono-mol
filtering in white noise II./ Some useful expressions for optimum linear
filters/A study of the performance of linear and nonlinear
filters for waveform estimation/Generalized SNR and performance index of
finite order/Measurement of the kernels of a nonlinear system of
fixed time-continuous channels with memory-with special application to t
fixed-ratio performance by briefly presented conditioned reinforcing sti
fixed-ratio performance in the pigeon/Some discriminative properties of
Fixed-ratio punishment with continuous reinforcement/
fixed-ratio schedule/Time out from a
flux through axon membranes/A theory of passive ion
focal brain injury/The lesson of
food/Emulsification of liquid monkey
forebrain bundle-lateral hypothalamic area and reinforcing brain stimula
form perception/On the modifiability of
formation/Introduction to the problem of the reticular
formation/Towards a theory of the reticular
forward and backward masking/A comparison of
Forward and backward masking as a function of relative overlap and inten
frequencies/Note on binaural masking-level differences at high
frequency bioelectric signals/A simple time-division multiplexing system
frequency in the EEG: a demonstration/Daily correlation of adrenal ster
to frequency on auditory threshold/Effect of very low
frog/Responses to acoustic stimuli from single units in the eighth nerve
(frog)The evoked vocal response of the bullfrog/
frontal-lobe lesions in rodents, carnivores and primates/Some behavioral
function in neurons, neuronal nets, and the brain/Molecular and ultrastr
function in pathological emotional states/Adrenocortical
function/Molecular correlates of brain
function of amount of reinforcement/Timing behavior as a
function of reinforcement magnitude and density/Rate of intracranial sel
function of relative overlap and intensity of test and masking stimuli/F
function/Role of protein in neural
function/The synapse: morphological and chemical correlates of
Functional analysis of systems characterised by nonlinear differential e
functional correlates/Brain and nerve proteins:
Functional relations between stimulus intensity and photically evoked ce
functionally deviant and normal speech/Comparison of grammar of children
functions, ancient and modern of circadian oscillation/Biological clocks
functions/Bounds on two-element-kind impedance
functions/Determination of optimum nonlinear systems for generalized err
functions/Disorders of higher tactile and visual
functions in a healthy man studied longitudinally/Circadian phase diagra
functions in the vertebrate nervous system/The organization of memory
functions/Measurement of correlation
functions of different states of wakefulness and sleep/Variations on the
functions of R, +L, +C, T networks/Bounds on impedance
functions related to memory/Some brain structures and
functions/Some mapping properties of RC and RL driving point impedance

ganglion cells of the rat/Dendritic fields of retinal
ganglion cells: receptive field organization and maintained activity/Ra
Gemini flight CT-7 and computation to be used in 30 day primate flight/A
Gemini flight CT-7 data with specification of on-line computing requirem
generalization/Effects of averaging data during
generalization of conditioned suppression/The effect of discrimination tr
generalization"/On the acquisition of syntax: a critique of "contextual
Generalized SNR and performance index of filters for waveform estimation/
generating station/Adcentral probability
generation of random interval schedules/The
Glass-coated tungsten microelectrodes/
Glia bibliography/
glycine excretion in man/Indolylacroyl
glycogen of mice during inanition and dehydration/Persisting circadian r
'good'/Semantic theory and the meaning of
grammar/Alternation of rules in children's 64
grammar in speech perception/The active use of 264
grammar of children with functionally deviant and normal speech/Comparis 65
grammars/A note on asymmetry in phrase structure 62
graphing EEG sleep patterns/A simple electronic method for 299
gravity/Animal behavior in fields of simulated 390
gravity(2g): the aversive stimulus in an instrumental escape and punished 393
grey lesions on responses to reinforcing brain stimulation/The effects of 258
growth responses to simulated weightlessness induced by the Nogravatron, 279
habituated responses in limulus/Test of cross-optic transfer of 372
habitation using spreading depression/Transfer of 334
(hallucinogen)Remarks on LSD/ 340
hamster/Curiosity in the 211
handwriting signals/Experimental studies of 292
handwritten words/Experiments on computer recognition of connected 67
head and auditory meatus of the cat/On the sound pressure transformation 355
heart failure/Transport of sodium by the lymphatics in simulated congest 368
heart rate and instrumental avoidance behavior in the rhesus monkey/Conc 14
heart rate changes during sinus arrhythmia/Blood pressure and 194
heart rate changes in dogs during hypothalamic self-stimulation/Blood pr 196
heart rate in monkeys/The effect of person on 195
(heart)The effect of cardiac arrest with closed chest massage on the EEG 109
Hebb-Williams maze performance/Caudate, cortical, hippocampal and dorsal 148
hepatic glycogen of mice during inanition and dehydration/Persisting cir 271
hibernators/The internal rhythms of 423
Hidatsa syntax/ 185
hippocampal and dorsal thalamic lesions in rats: alternation and Hebb-W 148
hippocampal lesions/Tactually-guided maze learning in man: effects of u 128
histological studies of postnatal neurogenesis/Autoradiographic and 248
(hormone)Electronic computer techniques for the study of endocrine rhythm 152
(hormone)Spectral resolution of low-frequency, small-amplitude rhythms i 150
(hormone)Transport of renin-angiotensin by renal lymphatics/ 125
(hormone)Variance spectra of corticosteroid in adrenal venous effluent o 43
hormones/Autoradiographic and implantation studies of sex 198
hour synchrononized circadian rhythms/Methodologic aspects of human time 217
human blood/Cosinor-evaluation of circadian rhythm with low amplitude in 267
human brain lesions and memory changes/Correlations between specific 72
human cancer, reevaluated by electronic computer programs - evidence for 379
human performance in a continuously programmed experimental environment/ 10
human time estimations with special reference to 24-hour synchronize ci 217
hyperpolarization: A role for fine afferent fibres/Presynaptic 63
hypertension/Measurement of oxygen tension and saturation in the diagnos 120
hypothalamic area and reinforcing brain stimulation/The medial forebrain 346
hypothalamic self-stimulation/Blood pressure and heart rate changes in d 196
hypothalamic stimulation as an unconditional stimulus/Electrocardiograph 13
hypothalamic stimulation/Attenuation of aversive properties of periphera 130
hypothalamic stimulation in satiated rats: T-maze learning for food/Lat 190
hyperthermia/The enhancement of regional bladder megavoltage irradiation 370
hypothesis/Enzyme induction and the psychosomatic 183

ideograms/Some possibilities for the study of visual-oculomotor processe 361
illness/Animal behavior and mental 260
Immunologic and psychic memory/ 16
immunological studies of nerve axon protein/Chemical, structural 84
impedance functions/Bounds on two-element-kind 163
impedance functions of R, +L, +C, T networks/Bounds on 168
impedance functions/Some mapping properties of RC and RL driving-point 152
implantation studies of sex hormones/Autoradiographic and 198
Impulses originating in the region of dendrites/inanition and dehydration/Persisting circadian rhythm in hepatic glycog
Independence of approach and escape reactions to electrical stimulation/index of filters for waveform estimation/Generalized SNR and performance
Indolylacroyl glycine excretion in man/induced changes in the protein and nucleic acid metabolism of the brain/induced increase in tryptophan turnover along induceable pathways in man/induction and the psychosomatic hypothesis/Enzyme information in vision/Note on short-term storage of
Information processing and decision making by man. I. Limitations on t
Information processing and decision making by man. II. Evidence of per
information processing mechanisms/Macromolecular conformation changes as
information/Regeneration of retention of acquired
information/Reinforcing value of
information storage and readout in biological systems/Chemical means of
information stored in single neurons/Types of
Information/The organization of cerebral tissue in transaction and storage
information through the central nervous-system/Processing and transmitti
information transaction and storage in brain tissue/Neurophysiological c
inhibition in the visual system after photic stimulation/Facilitation an
inhibition of auditory nerve responses: dependence on acoustic stimulus
injections/A method for training unrestrained primates to receive drug
injury/Alterations in perception after brain
injury/The lesson of focal brain
instrumental avoidance behavior in the rhesus monkey.Concurrent measurem
instrumental behavior and psychophysical change: A comparative approach
insulin coma by saccharin/The potentiation of
integrated theory of linguistic description/An
intensity and photically evoked cerebral responses in man/Functional rel
intensity difference for brief impulsive stimuli/Minimum detectable chan
intensity of test and masking stimuli/Forward and backward masking as a
intensity/Physiological observations of auditory masking. Effect of mas
interaction in the accessory superior-olivary nucleus of the cat/Binaura
Interaction of positive and negative reinforcing neural systems/
interaction with a dorsolateral spinal cutaneous, afferent system/Local, interaural JND's/Note on application of the EC model to
interaural time of intensity difference for brief impulsive stimuli/Mini
interference in short-term memory for single letters/Phonemic similarity
interference/Orthogonal detection to reduce common channel
Interlingual facilitation of short-term memory/
interpretation with reinforcing brain stimulation/Problems of measuremen
interval schedules/Observing behavior during
interval schedules/The generation of random
intervals/Spectral analysis of steroid rhythms in data at equal or unequ
intracranial self-stimulation as a function of reinforcement magnitude a
intrusion errors in short-term memory/Acoustic similarity and
intrusions in short-term memory for consonant-vowel diagrams/Similarity
invertebrate model of circadian desynchronization/The blinded fiddler cr
(invertebrate)Retention of a discrimination following regeneration in pl
(invertebrate)Test of cross-optic transfer of habituated responses in li
(invertebrates)Evidence of right-left discrimination in planarians/
investigation of barley seedling growth responses to simulated weightles
in vitro culture and autoradiographic studies of neurons in aplysia/Pro
ion-exchange phenomena in phospholipid monomolecular films/A demonstrati
ion-flux through axon membranes/A theory of passive
ions do not pass the membrane of the giant axon/Caesium
irradiation in bladder cancer using local bladder hyperthermia/The enhan
irradiation on experimental bladder calculogenesis/The effect of megavol
ischemia/Experimental basis of quantitative radiorenography for evaluati
ischemic hypertension/Measurement of oxygen tension and saturation in th
isodendritic core of the brain stem/The
isolation underground. The study of two healthy adult subjects before,
jitter for a tunnel diode/Statistics of switching-time
jitter/Optimum prefiltering in sampled data with read-in
JND's/Note on application of the EC model to interaural

kernels of a non-linear system/Measurement of the Wiener
kernels of a non-linear system of finite order/Measurement of the
ketosteroid; probable androgen-induced circaseptan desynchronization/Sp
kidney - an aspect of circadian periodic enzyme activity/Transamidinase
(kidney)Experimental basis of quantitative radiorenography for evaluatin
(kidney)Measurement of oxygen tension and saturation in the diagnosis of
(kidney)Renal lymph oxygen tension during graded renal ischemia/
(kidney)The renal lymphatics: an active fluid transport system/
(kidney)The renal lymphatics and therapy of pyelonephritis/
(kidney)Transport of renin-angiotension by renal lymphatics/
kidneys of sodium-depleted and sodium-loaded rats/Extraction and bioassa
Knudson numbers/Angular distribution of flow from orifices and tubes at

laboratory experiments through motion picture films/Presentation of
(lactic dehydrogenase) activity in the diagnosis of urologic neoplasms/U
lacunae/Summation: convergences, divergences,
language, a critique of Wittgenstein/Operationalism and ordinary
"language and thought'/Review of J. Carroll's
language/The philosophy of
language/The philosophy of
languages/A conjecture concerning non-context free
lanthanum on cell membrane/Staining properties of
latency, adaptation level and metacontrast/Photoreceptor
+L, +C, T networks/Bounds on impedance functions of R,
LDH (Lactic Dehydrogenase) activity in the diagnosis of urologic neoplas
learning and the discrimination of wines/Perceptual
learning/A re-examination of "prolonged retrograde amnesia" in one-trial
learning for food/Lateral hypothalamic stimulation in satiated rats: t-m
learning in man: effects of unilateral cortical excisions and bilateral
learning/Molecular parameters in memory and
learning/The physical basis of life and
lentiform nucleus in the monkey/Efferent connections of the
lesion on pattern vision/Effects of occipital lobe
lesions and memory changes/Correlations between specific human brain
lesions/Delayed alternation performance in patients with cerebral
lesions in rats: alternation and Hebb-Williams maze performance/Caudate
lesions in rodents, carnivores and primates/Some behavioral consequences
lesions - mammillary nuclei and associated complex of cat brain/Quantita
lesions of nucleus rotundus in the pigeon/Brightness and pattern discrim
lesions on responses to reinforcing brain stimulation/The effects of mes
lesions/Tactually-guided maze learning in man: effects of unilateral co
letters and words/Naming sequentially present
letters/Short-term recognition memory for normal and whispered
leucine by the brain/Behavioral influences on the utilization of \( ^{3}H \)
library/Technical details of data acquisition for the normative electroe
library/The normative electroencephalographic data reference
man: Circadian rhythms in man during the two months of staying underground/Broad study of the circ man: effects of unilateral cortical excisions and bilateral hippocampal man: Functional relations between stimulus intensity and photically evoke man: Indolylacroyl glycine excretion in man: I. Limitations on transmission rate in sequential actions. Informa man: Localization of stimulus sites/Corticosteriod responses to limbic st man: Rhinenencephalic regulation of the pituitary-adrenal axis in man: Some observations on evoked responses in relation to temporal condit man studied longitudinally/Circadian phase diagrams of oral temperature man: Urinary excretion of 3-methoxy-4-hydroxymandelic acid during dreamin man: Urine volume and osmolarity changes during dreaming sleep in mapping properties of RC and RL driving-point impedance functions/Some masking/A comparison of forward and backward masking as a function of relative overlap and intensity of test and unma masking. Effect of masking intensity/Physiological observations of audi masking-level differences at high frequencies/Note on binaural "masking"/Observations pertaining to the mechanism of masking stimuli/Forward and backward masking as a function of relative o matching to sample performance/Stimulus change effects on Mathematical concepts of central nervous system function/ (mathematics) Bounds on the accuracy attainable in the estimation of cont (mathematics) Determination of optimum nonlinear systems for generalized (mathematics) Measurement of the kernels of a nonlinear system of finite (mathematics) Measurement of the Wiener kernels of a nonlinear system/ (mathematics) Some aspects of the Wiener theory of nonlinear systems/ (mathematics) Superposition in a class of nonlinear systems/ (mathematics) Synthesis of a class of nonlinear systems/ maximum signal energy/Minimizing the maze learning in man: effects of unilateral cortical excisions and bila maze performance/Caudate, cortical, hippocampal and dorsal thalamic lesi meaning be an rm?/Could meaning of 'good'/Semantic theory and the measurement and interpretation with reinforcing brain stimulation/Problem Measurement of correlation functions/ measurement of heart rate and instrumental avoidance behavior in the rhe measurement of multidimensional transducers/Sequential Measurement of oxygen tension and saturation in the diagnosis of renal i Measurement of the kernels of a nonlinear system of finite order/ Measurement of the Wiener kernels of a non-linear system by cross-correl measurements -- a study of four subjects/Discriminating among states of meatus of the cat/On the sound pressure transformation by the head and a mechanism of "masking"/Observations pertaining to the mechanisms of "masking"/Observations pertaining to the/mechanisms: A new theory/Pain mechanisms/Cellular regulatory mechanisms in the conditioning of ectopic arrhythmias/Peripheral versus mechanisms/Macromolecular conformation changes as possible information p medial forebrain bundle-lateral hypothalamic area and reinforcing brain medullated and unmedullated fibers/On the propagation of the nervous imp megavoltage, total body irradiation on experimental bladder calculogenes membrane of the giant axon/Caesium ions do not pass the membrane/Staining properties of lanthanum on cell membrane systems/Supramolecular organization of enzyme and membranes/A theory of passive ion flux through axon membranes membranes/The role of water structures in the molecular organization of memory/Acoustic similarity and intrusion errors in short-term
monkey/Concurrent measurement of heart rate and instrumental avoidance b
monkey/Efferent connections of the lentiform nucleus in the
monkey/Ejaculation evoked by stimulation of the preoptic area in the
monkeys/Aspects of the delayed alternation deficits produced by electric
monkeys/Effect of interhemispheric transaction on the EEG patterns in sl
monkeys/The effect of person on heart rate in
monoamines and regional uptake of DL-norepinephrine -7-H3 in the avian b
monocular visual field/Comparison of spatial discrimination in the tempo
Mood, motility, and 17-hydroxycorticoid excretion: a polyvariable case
morphological and chemical correlates of function/The synapse:
(morphology)Methods for completely deciphering the neuronal circuitry o
morphology; procedures and illustrative examples/Circadian system phase
motility, and 17-hydroxycorticoid excretion: a polyvariable case study/
motion picture films/Presentation of laboratory experiments through
Motivational properties of long durations of rewarding brain stimulation
motor deficits/Minimal cerebral dysfunction in children:

motor development/Variations and abnormalities in

treatment mechanisms/Central nervous system:

mouse kidney - an aspect of circadian periodic enzyme activity/Transamid
movement sleep/Biochemical aspects of rapid eye
multidimensional transducers/Sequential measurement of
multiple unit studies/The real-time sorting of neuroelectric action pote
multiplexing system for low-frequency bioelectric signals/A simple time-
multiuser computation facility for education and research/A

(muscle)Central nervous system: motor mechanisms/

myocardial electrical stimulation as an unconditional stimulus/An attemp

nasal sectors of the monocular visual field/Comparison of spatial discri
N-dimensional cube/Resistance of an
negative reinforcing neural systems/Interaction of positive and
neoplasms/Urinary LDH (Lactic Dehydrogenase) activity in the diagnosis o
nerve and cochlear nucleus/Stimulus coding in the auditory
nerve axon protein/Chemical, structural, and immunological studies of
nerve/Discharge patterns of single fibers in the cat's auditory
nerve fibers/Effect of acoustic stimuli on spontaneous spike discharges
nerve fibers/Probabilities with spike discharge in auditory
nerve fibers in cat/A statistical analysis of electrophysiological data
nerve of the green frog/Responses to acoustic stimuli from single units
nerve proteins: functional correlates/Brain

nerve responses: dependence of acoustic stimulus parameters/Efferent in
nerve, cardiovascular and visuomotor studies relating to spatial orient
nervous impulse down medullated and unmedullated fibers/On the propagati
nervous monitoring in performing subjects/Electrode problems in central
(nervous system)A method for analyzing variations in evoked responses/
nerve system function/Mathematical concepts of central
(nervous system)Impulses originating in the region of dendrites/
(nervous system)motor mechanisms/Central

nervous system/Processing and transmitting information through the centr
nervous system/The organization of memory functions in the vertebrate

network programming problems/Distributed solution of

neural function/Bounds on impedance functions of R, +L, +C, T
neural systems/Interaction of positive and negative reinforcing
neuroanatomic studies implemented by ultrasonic lesions - mammillary nuc

neuro-electric action potentials in multiple unit studies/The real-time
neurogenesis/Autoradiographic and histological studies of postnatal
neuronal circuitry of brain structures/Methods for completely deciphering

-55-
neuronal memory/On the nature of macromolecular coding in
neuronal nets, and the brain/Molecular and ultrastructural correlates of
neuronal populations during sleep and mental states/The cooperative beha
neuronal spike populations and EEG activity in chronic cats/Relationship
neurons in aplysia/Prolonged in vitro culture and autoradiographic studi
neurons, neuronal nets, and the brain/Molecular and ultrastructural corr
neurons/Some implications of the stochastic behavior of primary auditory
neurons/Types of information stored in single
Neurophysiological correlates of information transaction and storage in
neurophysiological data/Concepts of cerebral organization arising from t
Neurophysiological effects of early sensory restriction/
neurophysiology of anesthesiology/The
Neurosciences research symposium summaries/
neurosciences/Specificity in the
New and strange systems/
Nogravatron, a two axis rotation apparatus/An investigation of barley se
noise/The power density spectrum of television random
noise/The subjective effect of two-dimensional pictorial
non-context free languages/A conjecture concerning
nonlinear differential equations/Functional analysis of systems characte
nonlinear filters/A study of the performance of linear and
nonlinear system/Measurement of the Wiener kernels of a
nonlinear system of finite order/Measurement of the kernels of a
nonlinear systems for generalized error criteria based on the use of gat
nonlinear systems/Some aspects of the Wiener theory of
nonlinear systems/Some techniques for the synthesis of
nonlinear systems/Superposition in a class of
nonlinear systems/Superposition in a class of
nonlinear systems/Synthesis of a class of
non-punished behavior by stimulus change/Disruption of punished and
normal and whispered letters/Short-term recognition memory for
normal speech/Comparison of grammar of children with functionally devian
note on asymmetry in phrase structure grammars/A
Note on binaural masking-level differences at high frequencies/
Note on recurrent codes/
Note on short-term storage of information in vision/
note on time out from avoidance with the chimpanzee/A
nuclei and associated complex of cat brain/Quantitative neuroanatomic st
nucleic acid metabolism of the brain/Autoradiographic examination of beh
nucleus after destruction of the cochlea/Spontaneous spike discharge fro
nucleus in the monkey/Efferent connections of the lentiform
nucleus of anesthetized cats/Spike discharge patterns of spontaneous and
nucleus of the cat/Binaural interaction in the accessory superior-olivar
nucleus rotundus in the pigeon/Brightness and patterns discrimination de
nucleus/Stimulus coding in the auditory nerve and cochlear
nucleus/Stimulus coding in the cochlear
nucleus: Tone-burst stimulation/Classification of response patterns of
nucleus: Waveforms of extracellularly recorded spike potentials/Anterov
(nutrition)Emulsification of liquid monkey food/
observations/Decisions based on conflicting and inaccurate
observations of auditory masking. Effect of masking intensity/Physiolog
Observations pertaining to the mechanism of "masking"/
occipital lobe lesion on pattern vision/Effect of
off-line turing machine computations / One-tape
(olfactory system)Speculations on smell/
One-tape, off-line turing machine computations /
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>one-trial learning/A re-examination of &quot;prolonged retrograde amnesia&quot; in on-line computing requirements/Analysis of baseline and Gemini flight GT</td>
<td>255</td>
</tr>
<tr>
<td>On-line turing machine computations/</td>
<td>244</td>
</tr>
<tr>
<td>operant conditioning studies/A device for the partial restraint of rats</td>
<td>276</td>
</tr>
<tr>
<td>Operationalism and ordinary language, a critique of Wittgenstein/</td>
<td>269</td>
</tr>
<tr>
<td>optic tectum of the pigeon (Columba livia)/Projections of</td>
<td>141</td>
</tr>
<tr>
<td>Optimum angle modulation/</td>
<td>170</td>
</tr>
<tr>
<td>Optimum prefiltering in sampled data with read-in jitter/</td>
<td>105</td>
</tr>
<tr>
<td>Optimum quantization/</td>
<td>180</td>
</tr>
<tr>
<td>optimum quantization of stationary signals/On the</td>
<td>112</td>
</tr>
<tr>
<td>oral temperature and urinary functions in a healthy man studied</td>
<td>28</td>
</tr>
<tr>
<td>orbital flight/Electroencephalogram during</td>
<td>270</td>
</tr>
<tr>
<td>order/Measurement of the kernels of a nonlinear system of finite</td>
<td>298</td>
</tr>
<tr>
<td>Organic foundations of animal behavior/</td>
<td>205</td>
</tr>
<tr>
<td>Organisms as circadian systems; temporal analysis of their physiologic organization and maintained activity/Rat retinal ganglion cells: recept</td>
<td>247</td>
</tr>
<tr>
<td>organization arising from time series analysis of neurophysiological data</td>
<td>46</td>
</tr>
<tr>
<td>organization/Book review: cerebral localization and</td>
<td>95</td>
</tr>
<tr>
<td>organization/Mammillary complex of cat brain-aspects of quantitative</td>
<td>227</td>
</tr>
<tr>
<td>organization of cell membranes/The role of water structures in the molecule</td>
<td>263</td>
</tr>
<tr>
<td>organization of cerebral tissue in transaction and storage of informatio</td>
<td>51</td>
</tr>
<tr>
<td>organization of enzyme and membrane systems/Supramolecular</td>
<td>357</td>
</tr>
<tr>
<td>organization of memory functions in the vertebrate nervous system/The</td>
<td>179</td>
</tr>
<tr>
<td>oriental ideograms/Some possibilities for the study of visual-oculomotor orientation in a 30 day primate flight/Central nervous, cardiovascular a</td>
<td>361</td>
</tr>
<tr>
<td>orienting and discriminative responses/Intrinsic organization of cerebra orifices and tubes at high Knudson numbers/Angular distribution of flow</td>
<td>414</td>
</tr>
<tr>
<td>origin of microneurons in the rat brain/Postnatal</td>
<td>415</td>
</tr>
<tr>
<td>Orthogonal detection to reduce common channel interference/</td>
<td>276</td>
</tr>
<tr>
<td>oscillation in Drosophila pseudoobscura pupae: a model for the photoper oscillations/Biological clocks - the functions, ancient and modern of ci</td>
<td>313</td>
</tr>
<tr>
<td>(oscilloscope)/Anteroventral cochlear nucleus: waveforms of extracellul (oscilloscope)Effect of acoustic stimuli on spontaneous spike discharges</td>
<td>200</td>
</tr>
<tr>
<td>(oscilloscope)Effect of acoustic stimuli on spontaneous spike discharges</td>
<td>400</td>
</tr>
<tr>
<td>(oscilloscope)Effect of acoustic stimuli on spontaneous spike discharges</td>
<td>175</td>
</tr>
<tr>
<td>osmolarity changes during dreaming sleep in man/Urinary volume and</td>
<td>146</td>
</tr>
<tr>
<td>overlap and intensity of test and masking stimuli/Forward and backward m</td>
<td>294</td>
</tr>
<tr>
<td>oxygen tension and saturation in the diagnosis of renal ischemic hyperte</td>
<td>325</td>
</tr>
<tr>
<td>Oxygen uptake rhythms in a cockroach gauged by variance spectra/</td>
<td>120</td>
</tr>
<tr>
<td>Pain mechanisms: a new theory/</td>
<td>77</td>
</tr>
<tr>
<td>panting/Sinus arrhythmia during</td>
<td>188</td>
</tr>
<tr>
<td>parallel communication channels/Error bounds for</td>
<td>197</td>
</tr>
<tr>
<td>parameters in memory and learning/Molecular</td>
<td>259</td>
</tr>
<tr>
<td>partial restraint of rats in operant conditioning studies/A device for t passive ion flux through axon membranes/A theory of</td>
<td>328</td>
</tr>
<tr>
<td>pathological responses, including injury and death/Organisms as circadian pathological emotional states/Adrenocortical function in</td>
<td>269</td>
</tr>
<tr>
<td>pathology - an analogy to microscopy/Resolving power of electronic compu</td>
<td>46</td>
</tr>
<tr>
<td>pathology/Mitotic rhythms in human cancer, reevaluated by electronic com Patho-physiology of decompression sickness-dysbarism/</td>
<td>322</td>
</tr>
<tr>
<td>patients with cerebral lesions/Delayed alternation performance in</td>
<td>381</td>
</tr>
<tr>
<td>pattern discrimination deficits after lesions of nucleus rotundus in the pattern vision/Effects of occipital lobe lesion on</td>
<td>379</td>
</tr>
<tr>
<td>patterns/A simple electronic method for graphing EEG sleep</td>
<td>426</td>
</tr>
<tr>
<td>patterns during temporally spaced responding/Complex response</td>
<td>254</td>
</tr>
<tr>
<td>patterns of single fibers in the cat's auditory nerve/Discharge</td>
<td>277</td>
</tr>
<tr>
<td>patterns of spike discharges for units in the cochlear nucleus:</td>
<td>220</td>
</tr>
<tr>
<td>tone-bu</td>
<td>299</td>
</tr>
<tr>
<td></td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>176</td>
</tr>
<tr>
<td></td>
<td>311</td>
</tr>
</tbody>
</table>
patterns of spontaneous and continuously stimulated activity in the coch

Pavlovian typology: comparative comments on the development of a scient

payload and integration with a sounding rocket/Development of a small an

PCM picture transmission/

performance by briefly presented conditioned reinforcing stimuli/Enhance

performance by use of conditioned reinforcement/Facilitation of large ra

performance/Caudate, cortical, hippocampal and dorsal thalamic lesions i

performance in a continuously programmed experimental environment/A long

performance index of filters for waveform estimation/Generalized SNR and

performance in patients with cerebral lesions/Delayed alternation

performance in the pigeon/Some discriminative properties of fixed-ratio

performance of linear and nonlinear filters/A study of the

performance simulations/Biosatellite

performance/Stimulus change effects on matching to sample

peripheral cutaneous unmyelinated fibers/Response of single dorsal cord

periodic enzyme activity/Transamidinase activity in mouse kidney - an as

periodicity, adrenal corticosteroids, sleep deprivation and the EEG in n

Periodicity analysis - a potential tool for biometeorologist/

peripheral auditory apparatus/Temperature effects on the

peripheral cutaneous unmyelinated fibers/Response of single dorsal cord

peripheral shock by hypothalamic stimulation/Attenuation of aversive pro

Peripheral versus central mechanisms in the conditioning of ectopic arrh

person on heart rate in monkeys/The effect of

(pharmacology)Remarks on LSD/

phase diagrams of oral temperature and urinary functions in a healthy man

Phase difference tests - longitudinal and transverse - on circadian rhyt

phenomena in phospholipid mono-molecular films/A demonstration of ion-ex

philosophy of languages/The

philosophy of languages/The

(philosophy)Why-questions/

Phonemic similarity and interference in short-term memory for single let

phonemic similarity of retroactive interference/Short-term recognition m

phonemically similar lists/Short-term memory for

phonological theory/Some controversial questions in

(phonology)Some controversial questions in phonological theory/

phospholipid mono-molecular films/A demonstration of ion-exchange phenom

photic stimulation/Facilitation and inhibition in the visual system after

photically evoked cerebral responses in man/Functional relations between

photoperiodic clock/The circadian oscillation in Drosophila pseudoobscur

Photoreceptor latency, adaptation level and metacontrast/

phrase structure grammars/A note on asymmetry in

physical basis of life and learning/The

Physics and biology-where do they meet?/

physiologic and pathologic responses, including injury and death/Organis

physiologic circadian crests in groups of children studies "transversely

Physiologic rhythms and bioastronautics/

physiological change: a comparative approach to the experimental analys

Physiological factors in decompression sickness/

Physiological observations of auditory masking. Effect of masking inten

Physiological rhythms/

(physiology)Cardiovascular responses to novel and conditional stimuli ev

(physiology)Central nervous system: motor mechanisms/
problems/Behavior stress and physiological change: A comparative approach
problems/Distributed solution of network programming
problems in central nervous monitoring in performing subjects/Electrode
Problems of measurement and interpretation with reinforcing brain stimul
problems to be attacked with a series of U.S. satellites in 1966/On the
processing/Bounds on the accuracy attainable in the estimation of continu
processing and transmitting information through the central nervous syst
processing mechanisms/Macromolecular conformation changes as possible in
profiles of rhythms/Some aspects of biologic data analysis; longitudina
program/Word-recognition computer
programmed environment/Detecting and recording the behavior of animals i
Programmed environments for the experimental analysis of behavior/
programmed experimental environment/A long-term study of human performan
programming/A pulser device for automatic
programming of two animals in a single experimental space/A combination
Projections of optic tectum of the pigeon (Columba livia)/
propagation of the nervous impulse down medullated and unmedullated fiber
properties of BaTiO₃ single crystals/Some dielectric and electro-optic
properties of lanthanum on cell membrane/Staining
properties of long durations of rewarding brain stimulation/Motivational
properties of peripheral shock by hypothalamic stimulation/Attenuation of
properties of RC and RL driving-point impedance functions/Some mapping
protein and nucleic acid metabolism of the brain/Autoradiographic examin
protein/Chemical, structural and immunological studies of nerve axon
protein in neural function/Role of
proteins; functional correlates/Brain and nerve
Pseudorandom scanning/
psychic memory/Immunologic and
psychoendocrine system/Emotion and the sensitivity of the
psychological reality of linguistic segments/The
psychophysical change: A comparative approach to the experimental analy
Psychophysiology of emotional behavior/
psychosomatic disorders/Instrumental behavior and psychophysiological ch
psychosomatic hypothesis/Enzyme induction and the
psychosomatic problems/Behavior stress and physiological change: A comp
pulser device for automatic programming/A
punished and non-punished behavior by stimulus change/Disruption of
punishment with continuous reinforcement/Fixed-ratio
punishment situation/Simulated gravity (2g): the aversive stimulus in a
pupae: a model for the photoperiodic clock/The circadian oscillation in
pupil response during binocular rivalry/Attenuation of
pyelonephritis/The renal lymphatics and therapy of
pyelonephritis/Significance of antibacterial levels in the renal lymph d
Quantitative neuroanatomic studies implemented by ultrasonic lesions - m
quantitative organization/Mammillary complex of cat brain - aspects of
quantization of stationary signals/On the optimum
quantization/Optimum
questions/Why-
Questions/
questions of reference/Mr. Pfeiffer on
(radiation)The effect of megavoltage, total body irradiation on experime
radiorenography for evaluating renal ischemia/Experimental basis of quan
random interval schedules/The generation of
random noise/The power density spectrum of television
random processes/Bounds on the accuracy attainable in the estimation of
rat brain/Postnatal origin of microneurons in the
(rat) Continuous opportunity for reinforcing brain stimulation/
rat Dendritic fields of retinal ganglion cells of the
(rat) Independence of approach and escape reactions to electrical stimula
t rat kept in continuous light of 30 lux intensity/Reproducibility of circ
Rat retinal ganglion cells: receptive field organization and maintained
rate and instrumental avoidance behavior in the rhesus monkey/Concurrent
Rate change effects during a pre-schedule change stimulus/
Rate change effects with equal potential reinforcements during the 'warn
rate-distortion bounds/A comparison of optimum angle modulation system a
Rate of intracranial self-stimulation as a function of reinforcement mag
ratio schedule/Time out from a fixed
rats: alternation and Hebb-Williams maze performance/Caudate, cortical
Rat's anticipation of diurnal and a-diurnal feeding/
rats at altitude/Urinary bladder calculi formed in
rat's diurnal activity cycle/Effects of adiurnal lighting and feeding on
rats/Extraction and bioassay of renin from kidneys of sodium-depleted an
rat's home cage behavior/Effects of deprivation conditions upon the
rats in operant conditioning studies/A device for the partial restraint
rats maintained a-periodically/Consummatory behavior in
rats: T-maze learning for food/Lateral hypothalamic stimulation in sati
RC and RL driving-point impedance functions/Some mapping properties of
reactions to electrical stimulation of the brain/Independence of approac
Reading and talking bilingually/
Reading temporally and spatially transformed text/
read-in-jitter/ Optimum prefiltering in sampled data with
readout in biological systems/Chemical means of information storage and
real-time sorting of neuro-electric action potentials in multiple unit s
receptive field organization and maintained activity/Rat retinal ganglio
recognition memory for normal and whispered letters/ Short-term
recognition memory for single digits and pairs of digits/ Short-term
recognition of connected handwritten words/Experiments on computer
recording the behavior of animals in a multi-enclosure programmed enviro
rectal temperature and pinnal mitosis of starving, dehydrated C mice/Cir
rectal temperature) of one healthy female adult before during and after
recurrent codes/Note on
re-examination of "prolonged retrograde amnesia" in one-trial learning/A
reference library/Technical details of data acquisition for the normativ
reference library/The normative electroencephalographic data
reference/Mr. Pfeiffer on questions of
reflexes/Attitudinal
reflexes/The cardiodynamics of cardiac conditional
reflexes/The effect of cardiac arrest with closed chest massage on class
reflux - the physician's dilemma/ Urinary
regeneration in planarians/Retention of a discrimination following
Regeneration of retention of acquired information/
reinforcement/Facilitation of large ratio performance by use of conditio
reinforcement/Fixed-ratio punishment with continuous
reinforcement magnitude and density/Rate of intracranial self-stimulation
reinforcement/The locus of
reinforcement/Timing behavior as a function of amount of
reinforcement/Variables determining the effects of delay in
reinforcements during the 'warning stimulus'/Rate change effects with eq
reinforcing brain stimulation/Continuous opportunity for
reinforcing brain stimulation/Problems of measurement and interpretation
reinforcing brain stimulation/The effects of mesencephalic central grey
reinforcing brain stimulation/The medial forebrain bundle-lateral hypoth
retinal ganglion cells: receptive field organization and maintained act
retrograde amnesia" in one-trial learning/A re-examination of "prolonged
review: cerebral localization and organization/Book
Review of J. Carroll's "Language and Thought"/
revisions of the classical views of agnosia/Some needed
rewarding brain stimulation/Motivational properties of long durations of
rhesus monkey/Concurrent measurement of heart rate and instrumental avoi
Rhinencephalic regulation of the pituitary-adrenal axis in man/
rythm in C mice/Effect of cerebral ablation on a circadian pituitary ad
rythm in hepatic glycogen of mice during inanition and dehydration/Pers
rythm in the rat kept in continuous light of 30 lux intensity/Reproduc
rythm of chickens with alternating sleepwakefulness and of the estimati
(rhythm of the rectal temperature) of one healthy female adult before, d
rythm with low amplitude in human blood/Cosinor-evaluation of circadian
Rhythms and bioastronautics/Physiologic
rythms/Computer techniques in the study of biologic
rythms/Electronic computer techniques for the study of endocrine
rythms for space flight/Significance of circadian
rythms in a cockroach gauged by variance spectra/Oxygen uptake
rythms in data at equal or unequal intervals/Spectral analysis of stereo
rythms in excreted ketosteroid; probable androgen-induced circaseptan d
rythms in human cancer, reevaluated by electronic computer programs - e
rythms in man/Circadian
rythms of C mice/Phase difference tests - longitudinal and transverse on
rythms of hibernators/The internal
rythms/Physiological
rythms/Some aspects of biologic data analysis; longitudinal and transv
rythms, space research and manned space flight/Circadian
right-left discrimination in planarians/Evidence of
ring-catheter technique/Chronic basal blood pressures in unanesthetized
rivalry/Attenuation of pupil response during binocular
R, + L, +C T networks/Bounds on impedance functions of
RL driving-point impedance functions/Some mapping properties of RC and
\( \tau_m \)/Could meaning be an
rocket/Development of a small animal payload and integration with a soun
(rodent)Arterial pressure in CBA mice as related to age/
(rodent)Caudate, cortical, hippocampal and dorsal thalamic lesions in ra
(rodent)Circadian rhythmic pituitary adrenocorticotropic activity, recta
(rodent)Consummatory behavior in rats maintained a-periodically/
(rodent)Curiosity in the hamster/
(rodent)Dendritic fields of retinal ganglion cells of the rat/
(rodent)Effect of cerebral ablation on a circadian pituitary adrenocorti
(rodent)Effects of deprivation conditions upon the rat's home cage behav
(rodent)Independence of approach and escape reactions to electrical stim
(rodent)Lateral hypothalamic stimulation in satiated rats: T-maze learn
(rodent)Phase difference tests - longitudinal and transverse - on circad
(rodent)Rat retinal ganglion cells: receptive field organization and ma
(rodent)Rat's anticipation of diurnal and a-diurnal feeding/
(rodent)Postnatal origin of microneurons in the rat brain/
(rodent)Urinary bladder calculi formed in rats at altitude/
rodents, carnivores and primates/Some behavioral consequences of frontal
role for fine afferent fibres/Presynaptic hyperpolarization: A
role of water structures in the molecular organization of cell membranes
rotation apparatus/An investigation of barley seedling growth responses
rotundus in the pigeon/Brightness and pattern discrimination deficits af
rules in children's grammar/Alternation of
rules used by children from preschool through first grade/Syntactic

-63-
saccharin/The potentiation of insulin coma by sampled data with read-in jitter/Optimum prefiltering in sample performance/Stimulus change effects on matching to satellites in 1966/on the biological problems to be attacked with a seri saturation in the diagnosis of renal ischemic hypertension/Measurement of scanning/Pseudorandom schedule preference in the chimpanzee/Strategies of schedule/Time out from a fixed ratio schedules/Observing behavior during interval schedules/Stimulus control of temporally spaced responding in second-ord schedules/The generation of random interval second-order schedules/Stimulus control of temporally spaced responding seedling growth responses to simulated weightlessness induced by the Nog segmentsal and supraspinal interaction with a dorsolateral spinal cutaneo segments/The psychological reality of linguistic Self-induction and memory/ self-stimulation as a function of reinforcement magnitude and density/Ra Semantic theory and the meaning of 'good'/ (semantics)Could meaning be an r_m?/ sensitivity of the psychoendocrine system/Emotion and the sensorimotor coordination/Plasticity in sensorimotor systems/Plasticity in (sensory deprivation)Thermic spectrum (rhythm of the rectal temperature) sensory messages and functions of different states of wakefulness and sl sensory restriction/Neurophysiological effects of early sensory status in congenital encephalopathy/Unusual sequential decoding/An experimental facility for sequential decoding/The computation problem with Sequential measurement of multidimensional transducers/ sequentially presented letters and words/Naming shock by hypothalamic stimulation/Attenuation of aversive properties of short-term memory/Acoustic similarity and intrusion errors in short-term memory for English vowels/Distinctive features and errors in Short-term memory for phonemically similar lists/ short-term memory for single letters/Phonemic similarity and interference short-term memory/Interlingual facilitation of Short-term recognition memory for normal and whispered letters/ Short-term recognition memory for single digits and pairs of digits/ short-term storage of information in vision/Note on signal energy/Minimizing the maximum signals/Experimental studies of hand-writing signals/On the optimum quantization of stationary similarity and interference in short-term memory for single letters/Phon similarity and intrusion errors in short-term memory/Acoustic Similarity and intrusions in short-term memory for consonant vowel diag simple electronic method for graphing EEG sleep patterns/A Simulated gravity (2g): the aversive stimulus in an instrumental escape simulated congestive heart failure/Transport of sodium by the lymphatics simulated gravity/Animal behavior in fields of series analysis of neurophysiological data/Concepts of cerebral organiza simulated weightlessness induced by the Nogravatron, a two axis rotation simulations/Biosatellite performance single units in the auditory cortex/Responses of sinus arrhythmia/Blood pressure and heart rate changes during Sinus arrhythmia during panting/
status in congenital encephalopathy/Unusual sensory
steroid rhythms in data at equal or unequal intervals/Spectral analysis
steroids and alpha frequency in the EEG: a demonstration/Daily correla
stimulated activity in the cochlear nucleus of anesthetized cats/Spike
stimulation as an unconditional stimulus/An attempt to condition extras
stimulation as an unconditional stimulus/Electrocardiographic condition
stimulation/Attenuation of aversive properties of peripheral shock by h
stimulation/Blood pressure and heart rate changes in dogs during hypothal
stimulation/Brain
stimulation/Classification of response patterns of spike discharges for
stimulation/Facilitation and inhibition in the visual system after photi
stimulation in man: localization of stimulus sites/Corticosteroid respo
stimulation in satiated rats: T-maze learning for food/Lateral hypothal
stimulation/Motivational properties of long durations of rewarding brain
stimulation of the brain/Independence of approach and escape reactions t
stimulation of the preoptic area in monkey/Ejaculation evoked by
stimulation on monkeys/Aspects of the delayed alternation deficits produ
stimulation/Problems of measurement and interpretation with reinforcing
stimulation/The effects of mesencephalic central grey lesions on respons
stimulation/The medial forebrain bundle-lateral hypothalamic area and re
stimuli/Enhancement of fixed-ratio performance by briefly presented cond
stimuli evaluated by successive beat/Cardiovascular responses to novel a
stimuli/Forward and backward masking as a function of relative overlap an
stimuli from single units in the eighth nerve of the green frog/Response
stimuli in man/Some observations on evoked responses in relation to temp
stimuli/Minimum detectable change in interaural time or intensity differ
stimuli on renal secretion collected by the ureteral-shunt method/The ef
stimuli on spontaneous spike discharges in auditory nerve fibers/Effect
stimulus/An attempt to condition extrasystoles using direct myocardial e
stimulus change/Disruption of punished and non-punished behavior by
Stimulus change effects on matching to sample performance/
Stimulus coding in the auditory nerve and cochlear nucleus/
Stimulus coding the cochlear nucleus/
stimulus/Control of temporally spaced responding by a repetitive
Stimulus control of temporally spaced responding in second-order schedu
stimulus duration/Discrimination of hefted weights; effect of
stimulus/Electrocardiographic conditioning with hypothalamic stimulation
(stimulus)Fixed-ratio punishment with continuous reinforcement/
stimulus generalization/Effects of averaging data
stimulus in an instrumental escape and punishment situation/Simulated gr
stimulus intensity and photically evoked cerebral responses in man/Funct
stimulus parameters/Efferent inhibition of auditory nerve responses: dep
stimulus/Rate change effects during a pre-schedule change
stimulus'/Rate change effects with equal potential reinforcements during
stimulus sites/Corticosteroid responses to limbic stimulation in man: lo
stochastic behavior of primary auditory neurons/Some implications of the
storage and low-temperature biology/Memory
storage and readout in biological systems/Chemical means of information
storage of information in vision/Note on short-term
strange systems/New and
stress and physiological change: a comparative approach to the experime
stress of dreaming/The
stress/Role of early experience in determining the blood pressure respon
structural, and immunological studies of nerve axon protein/Chemical
structure grammars/A note on asymmetry in phrase
structure of English language/Analysis of the
structures and functions related to memory/Some brain
structures/Methods for completely deciphering the neuronal circuitry of
studies/A device for the partial restraint of rats in operant conditioni
studies implemented by ultrasonic lesions - mammillary nuclei and associ
studies of auditory discrimination/Experimental
studies of handwriting signals/Experimental
studies of nerve axon protein/Chemical, structural, and immunological
studies of neurons in aply sia/Prolonged in vitro culture and autoradiogr
studies of postnatal neurogenesis/Autoradiographic and histological
studies of sex hormones/Autoradiographic and implantation
studies relating to spatial orientation in a 30 day primate flight/Centr
studies/The real-time sorting of neuro-electric action potentials in mul
study/An arthropod preparation suitable for chronic electrophysiological
study/Mood, motility, and 17-hydroxycorticoid excretion: polyvariable c
study of biologic rhythms/Computer techniques for the
study of four subjects/Discriminating among states of consciousness by EE
study of misspelled words in "developmental dysgraphia"/Serial order in
study of the circadian rhythm of chickens with alternating sleepwakeful
study of the performance of linear and nonlinear filters/A
study of two healthy adult subjects before, during and after their isola
study of visual-oculomotor processes with the aid of oriental ideograms/
subcortical evoked potentials in cat/Hypertonic urea: its effects on co
subjective effect of two-dimensional pictorial noise/The
SU-4885 in mice/Circadian system-phase dependent toxicity and other effe
Summation: Convergence, divergences, lacunae/
superior-olivary nucleus of the cat/Binaural interaction in the accessor
Superposition in a class of nonlinear systems/
Superposition in a class of nonlinear systems/
Superstitious chaining during temporal discrimination/
suppression/Alleviation of conditioned
suppression/The effect of discrimination training on generalization of c
Supramolecular organization of enzyme and membrane systems/
supraspinal interaction with a dorsolateral spinal cutaneous afferent sy
switching-time jitter for a tunnel diode/Statistics of
symposium summaries/Neurosciences research
synapse as a cybernetic unit: a biochemist's fantasy/The
synapse: Morphological and chemical correlates of function/The
Syntactic rules used by children from preschool through first grade/
syntax: a critique of "contextual generalization"/On the acquisition of
syntax/Aspects of the theory of
syntax/Hidatsa
Synthesis of a class of nonlinear systems/
synthesis of nonlinear systems/Some techniques for the
Synthesizing the components of arithmetic behavior/
system after photic stimulation/Facilitation and inhibition in the visua
system/A model of the peripheral auditory
system for low-frequency bioelectric signals/A simple time-division mult
system function/Mathematical concepts of central nervous
system/Local, segmental and supraspinal interaction with a dorsolateral
system/Measurement of the Wiener kernels of a non-linear
system of finite order/Measurement of the kernels of a nonlinear
system-phase dependent toxicity and other effects of SU-4885 in mice/Cir
system/Processing and transmitting information through the central nervo
system/The organization of memory functions in the vertebrate nervous
systems and rate-distortion bounds/A comparison of optimum angle modulat
systems/A new model of alimentary
systems characterized by nonlinear differential equation/Functional analysis
systems/Chemical means of information storage and readout in biological
systems/Interaction of positive and negative reinforcing neural
systems for generalized error criteria based on the use of gate function
systems/New and strange
systems of polynomial equations by elimination/Solution of
systems/Plasticity in sensorimotor
systems/Some aspects of the Wiener theory of nonlinear
systems/Some techniques for the synthesis of nonlinear
systems/Superposition in a class of nonlinear
systems/Superposition in a class of nonlinear
systems/Supramolecular organization of enzyme and membrane
systems/Synthesis of a class of nonlinear
systems; temporal analysis of their physiologic and pathologic response
Systolic blood pressure changes during two beat sinus arrhythmia/
tactile and visual functions/Disorders of
tactually-guided maze learning in man: effects of unilateral cortical e

talking bilingually/Reading and
Taxonomies of disease/
teaching of English/On the role of linguistics in the
Technical details of data acquisition for the normative electroencephalo
technique/Chronic basal blood pressures in unanesthetized dogs using the
techniques for the study of endocrine rhythms/Electronic computer
Techniques for the synthesis of nonlinear system/
techniques in the study of biologic rhythms/Computer

tectum of the pigeon (Columba livia)/Projections of optic

television random noise/The power density spectrum of

temperature and pinnal mitosis of starving, dehydrated C mice/Circadian
temperature and urinary functions in a healthy man studies longitudinall
Temperature effects on the peripheral auditory apparatus/
temperature) of one healthy female adult before, during and after her is
temperature rhythm in the rat kept in continuous light of 30 lux intensi
temporal analysis of their physiologic and pathologic responses, includi
temporal and nasal sectors of the monocular visual field/Comparison Of
temporal conditioning to paired stimuli in man/Some observations on evok
temporal discrimination/Superstitious chaining during
temporal morphology; procedures and illustrative examples/Circadian sys
temporal pathology - an analogy to microscopy/Resolving power of electro
temporally spaced responding and avoidance behavior/Electroencephalograph
temporally spaced responding by a repetitive stimulus/Control of
temporally spaced responding/Complex response patterns during
temporally spaced responding in second-order schedules/Stimulus control
tension and saturation in the diagnosis of renal ischemic hypertension/M

test and masking stimuli/Forward and backward masking as a function of r
test of choice in renal trauma/Renal scan: The
tests - longitudinal and transverse - on circadian rhythms of C mice/Pha
texts/Catawba
thalamic lesions in rats: alternation and Hebb-Williams maze performanc
therapy of pyelonephritis/The renal lymphatics and
theorem and some applications/A simple derivation of the coding
theory and the meaning of 'good'/Semantic
theory of linguistic description/An integrated theory
theory of nonlinear systems/Some aspects of the Wiener
theory of passive ion flux through axon membranes/A
theory of syntax/Aspects of the

-68-
unconditional stimulus/An attempt to condition extra-systoles using direct
unconditional stimulus/Electrocardiographic conditioning with hypothalamic
unilateral cortical excisions and bilateral hippocampal lesions/Tactuali
units in the auditory cortex/Responses of single
units in the cochlear nucleus after destruction of the cochlea /Spontane
unit studies/The real time sorting of neuro-electric action potentials i
unmasking and the EC model/Further results on binaural
unmasking/Time-intensity relations in binaural
unmedullated fibers/On the propagation of the nervous impulse down medul
unmyelinated fibers/Response of single dorsal cord cells to peripheral c
unrestrained primates to receive drug injections/A method for training
uptake of DL-norephinephrine-7-H3 in the avian brain/Distribution of mon
urea: its effects on cortical and subcortical evoked potentials in cat/
ureteral-shunt method/The effect of novel stimuli on renal secretion c
Urinary bladder calculi formed in rats at altitude/
Urinary excretion of 3-methoxy-4-hydroxymandelic acid during dreaming sl
urinary functions in a healthy man studied longitudinally/Circadian phas
Urinary LDH (Lactic Dehydrogenase)activity in the diagnosis of urologic
Urinary reflux - the physician's dilemma/
Urinary volume and osmolarity changes during dreaming sleep in man/
urologic neoplasms/Urinary LDH (Lactic Dehydrogenase) activity in the di
U.S. satellites in 1966/On the biological problems to be attacked with a

value of information/Reinforcing
Variables determining the effects of delay in reinforcement/
Variance spectra of corticosteroid in adrenal venous effluent of dogs/
variance spectra/Oxygen uptake rhythms in a cockroach gauged by
variation of luminance and light-dark ratio/Brightness enhancement in li
Variations and abnormalities in motor development/
variations in evoked responses/A method for analyzing
Variations on the transmission of sensory messages and functions of diff
velocity, primary velocity, primary afferent spectrum/The spinocervical
venous effluent of dogs/Variance spectra of corticosteroid in adrenal
vertebrate nervous system/The organization of memory functions in the
views of agnosia/Some needed revisions of the classical
vision/Effects of occipital lobe lesion on pattern
vision/Note on short-term storage of information in
visual cliff/Studying depth perception with the
visual field/Comparison of spatial discrimination in the temporal and na
visual functions/Disorders of higher tactile and
visual-oculomotor processes with the aid of oriental ideograms/Some poss
visual system after photic stimulation/Facilitation and inhibition in th
visuomotor studies relating to spatial orientation in a 30 day primate f
vocal response of the bullfrog/The evoked
volume and osmolarity changes during dreaming sleep in man/Urine
volume conductor/On bioelectric potentials in an inhomogeneous
vowels/Distinctive features and errors in short-term memory for English

wakefulness and sleep/Variations on the transmission of sensory messages
wakefulness, dreams and memory/Sleep,

wakefulness in monkeys/Effect of interhemispheric transection on the EEG
'warning stimulus'/Rate change effects with equal potential reinforcemen
(water loss)Persisting circadian rhythm in hepatic glycogen of mice durin
water structures in the molecular organization of cell membranes/The rol
waveform estimation/Generalized SNR and performance index of filters for
weightlessness induced by the Nogravatron, a two axis rotation apparatus
weights; effect of stimulus duration/Discrimination of hefted

-70-
whispered letters/Short-term recognition memory for normal and
Why-questions/
Wiener kernels of a non-linear system by cross-correlating/Measurement o
Wiener theory of nonlinear systems/Some aspects of the
wines/Perceptual learning and the discrimination of
Wittgenstein/Operationalism and ordinary language, a critique of
Word-recognition computer program/
words/Experiments on computer recognition of connected handwritten
words in "developmental dysgraphia"/Serial order in writing: a study of
words/Naming sequentially presented letters and
writing: a study of misspelled words in "developmental dysgraphia"/Seri

238
250
178
177
349
141
265
67
289
288
289
SENIOR AUTHORS AND ABBREVIATED LABORATORY ADDRESSES

The individuals listed below are those authors whose names appear as senior authors of a paper. They are in alphabetical order with the laboratory or institution in which they performed their research designated in abbreviation. These abbreviations for the laboratories and universities are written out in full on pages 76 through 78 which is an alphabetical listing with the complete addresses given.

Adey, W.R. (U.C., Brain Res. Inst.)
Algazi, V.R. (M.I.T., Res. Lab. Electronics)
Altman, J. (M.I.T., Psychol. Dept.)
Ames, L. (U. Md., Psychol. Dept.)
Aschoff, J. (Max-Planck)
Augenstein, L. (Michigan State, Biophysics Dept.)
Barlow, J.S. (M.I.T., Res. Lab. Electronics)
Batini, C. (U.C., Brain Res. Inst.)
Becker, G.M. (M.I.T., Psychol. Dept.)
Beer, B. (U. Md., Psychol. Dept.)
Belleville, R.E. (NASA, Bioscience Programs)
Bennett, E.L. (M.I.T., Neurosciences Res. Progr.)
Best, J.B. (Colo. State, Physiol. Dept.)
Bever, T. (M.I.T., Psychol. Dept.)
Boardman, C.J. (M.I.T., Res. Lab. Electronics)
Bolles, R.C. (Hollins)
Brady, J.V. (U. Md., Psychol. Dept.)
Bromberger, S. (M.I.T., Res. Lab. Electronics)
Brookhouser, P. (Johns Hopkins, Pavlovian Lab.)
Brown, J.E. (M.I.T., Res. Lab. Electronics)
Bruce, J.D. (M.I.T., Res. Lab. Electronics)
Buchwald, J.S. (U.C., Brain Res. Inst.)
Burns, S.K. (M.I.T., Res. Lab. Electronics)
Capranica, R.R. (M.I.T., Res. Lab. Electronics)
Cavaggioni, A. (M.I.T., Res. Lab. Electronics)
Chomsky, N. (M.I.T., Res. Lab. Electronics)
Chorover, S.L. (M.I.T., Psychol. Dept.)
Clark, F.C. (Indiana State Hosp.)
Coats, A.C. (Baylor U., Coll. Med.)
Cockett, A.T.K. (U.C., Brain Res. Inst.)
Colburn, H.S. (M.I.T., Res. Lab. Electronics)
Cordeau, J.P. (M.I.T., Psychol. Dept.)
Corkin, S. (M.I.T., Psychol. Dept.)
Corning, W.C. (Michigan State, Biophysics Dept.)
Cox, V.C. (Fels Res. Inst.)
Crystal, T.H. (M.I.T., Res. Lab. Electronics)
Davison, P.P. (M.I.T., Neurosciences Res. Progr.)
Dennis, J.B. (M.I.T., Res. Lab. Electronics)
Doggenweiler, C.F. (M.I.T., Res. Lab. Electronics)
Dore, E.K. (U.C., Brain Res. Inst.)
Durlach, N.I. (M.I.T., Res. Lab. Electronics)
Ebert, P.M. (M.I.T., Res. Lab. Electronics)
Eden, M. (M.I.T., Res. Lab. Electronics)
Eigen, M. (M.I.T., Neurosciences Res. Progr.)
Eldred, E. (U.C., Brain Res. Inst.)
Engeli, M. (U. Minn.)
Ertel, R. (U. Minn.)
Fair, C.M. (M.I.T., Neurosciences Res. Progr.)
Findley, J.D. (U. Md., Psychol. Dept.)
Fodor, J.A. (M.I.T., Psychol. Dept.)
Forney, G.D. (M.I.T., Res. Lab. Electronics)
Frank, G.F. (U. Minn.)
French, J.D. (U.C., Brain Res. Inst.)
Fry, W.J. (U. Ill., Coll. Eng.)
Galambos, R. (Yale)
Galicich, J.H. (U. Minn.)
Garcia-Sainz, M. (U. Minn.)
Garrett, M. (M.I.T., Psychol. Dept.)
Gold, B. (M.I.T., Res. Lab. Electronics)
Gray, P.R. (M.I.T., Res. Lab. Electronics)
Gross, C.G. (M.I.T., Psychol. Dept.)
Halberg, F. (U. Minn.)
Hall, J.L. (M.I.T., Res. Lab. Electronics)
Hall, R.D. (M.I.T., Res. Lab. Electronics)
Haus, E. (U. Minn.)
Hechter, O. (M.I.T., Neurosciences Res. Progr.)
Held, R. (M.I.T., Psychol. Dept.)
Hendry, D.P. (U. Md., Psychol. Dept.)
Hennie, F.C. (M.I.T., Res. Lab. Electronics)
Holsinger, J.L. (M.I.T., Res. Lab. Electronics)
Hoshizaki, T. (U.C., Brain Res. Inst.)
Huang, T.S. (M.I.T., Res. Lab. Electronics)
Jerger, J. (Baylor U., Coll. Med.)
Johnson, C.J. (M.I.T., Res. Lab. Electronics)
Kado, R.T. (U.C., Brain Res. Inst.)
Karten, H.J. (M.I.T., Psychol. Dept.)
Katz, J.J. (M.I.T., Res. Lab. Electronics)
Katz, Y.J. (U.C., Brain Res. Inst.)
Kazmin, M. (U.C., Brain Res. Inst.)
Kellaway, P. (Baylor U., Coll. Med.)
Kiang, N. (M.I.T., Res. Lab. Electronics)
Kilmer, W.L. (M.I.T., Res. Lab. Electronics)
Krieger, R.O. (Wallops)
Lange, K.O. (U. Ky.)
LeCours, A.R. (M.I.T., Psychol. Dept.)
Lee, D.A. (U.C., Brain Res. Inst.)
Lehninger, A.L. (M.I.T., Neurosciences Res. Progr.)
Lettvin, J.Y. (M.I.T., Res. Lab. Electronics)
Levinson, P. (U. Md., Psychol. Dept.)
Lindsley, D.B. (U.C.L.A.)
Little, M.S. (M.I.T., Neurosciences Res. Progr.)
Liu, B. (M.I.T., Res. Lab. Electronics)
McAlpine, G. (U. Va.)
MacDonald, J.S. (M.I.T., Res. Lab. Electronics)
Mandel, A.J. (U.C., Brain Res. Inst.)
Mandell, M.P. (U.C., Brain Res. Inst.)
Martin, R.C. (U. Ky., Coll. Eng.)
Matthews, G.H. (M.I.T., Res. Lab. Electronics)
Maulsby, R.L. (Baylor U., Coll. Med.)
Melzack, R. (M.I.T., Res. Lab. Electronics)
Mendell, L.M. (M.I.T., Res. Lab. Electronics)
Mendelson, J. (M.I.T., Psychol. Dept.)
Menyuk, P. (M.I.T., Res. Lab. Electronics)
Mermelstein, P. (M.I.T., Res. Lab. Electronics)
Migler, B. (U. Md., Psychol. Dept.)
Moses, J. (M.I.T., Res. Lab. Electronics)
Murawski, B.J. (M.I.T., Res. Lab. Electronics)
Nauta, W.J.H. (M.I.T., Psychol. Dept.)
Neff, W.D. (Indiana U. Found.)
Newton, J.E.O. (Johns Hopkins, Pavlovian Lab.)
Niessen, C.W. (M.I.T., Res. Lab. Electronics)
Ojemann, R.G. (M.I.T., Neurosciences Res. Progr.)
Oppenheim, A.V. (M.I.T., Res. Lab. Electronics)
Orme-Johnson, D. (U. Md., Psychol. Dept.)
Parente, R.B. (M.I.T., Res. Lab. Electronics)
Perez-Cruet, J. (Johns Hopkins, Pavlovian Lab.)
Pfaff, D.W. (M.I.T., Psychol. Dept.)
Pfeiffer, R.R. (M.I.T., Res. Lab. Electronics)
Pickard, W.F. (M.I.T., Res. Lab. Electronics)
Pineda, A. (U.C., Brain Res. Inst.)
Pittendrigh, C.S. (Princeton)
Pliskoff, S.S. (U. Md., Psychol. Dept.)
Quastler, H. (Michigan State, Biophysics Dept.)
Rabiner, L.R. (M.I.T., Res. Lab. Electronics)
Ratner, S. (Michigan State, Biophysics Dept.)
Reinberg, A. (U. Minn.)
Richards, A.G. (U. Minn.)
Richards, W.A. (M.I.T., Psychol. Dept.)
Roberts, E. (M.I.T., Neurosciences Res. Progr.)
Roberts, R. B. (M.I.T., Neurosciences Res. Progr.)
Robertson, J. D. (M.I.T., Neurosciences Res. Progr.)
Robinson, B.W. (Emory U., Yerkes)
Rojas, E. (M.I.T., Res. Lab. Electronics)
Rosenbaum, P.S. (M.I.T., Res. Lab. Electronics)

-74-
Rosenblith, W.A. (M.I.T., Res. Lab. Electronics)
Ross, C. (U. Md., Psychol. Dept.)
Rubin, R.T. (U.C., Brain Res. Inst.)
Rudel, R.G. (M.I.T., Psychol. Dept.)
Sachs, M.B. (M.I.T., Res. Lab. Electronics)
Savage, J.E. (M.I.T., Res. Lab. Electronics)
Schetzen, M. (M.I.T., Res. Lab. Electronics)
Schiller, P.H. (M.I.T., Psychol. Dept.)
Schmitt, F.O. (M.I.T., Neurosciences Res. Progr.)
Schneider, G.E. (M.I.T., Psychol. Dept.)
Schwartz, M. (U.C., Brain Res. Inst.)
Sekuler, R. (M.I.T., Psychol. Dept.)
Sidman, M. (Mass. Gen'l. Hosp.)
Siebert, W.M. (M.I.T., Res. Lab. Electronics)
Siffre, M. (U. Minn.)
Silverstein, A.M. (M.I.T., Neurosciences Res. Progr.)
Sklar, J.R. (M.I.T., Res. Lab. Electronics)
Snyder, D.L. (M.I.T., Res. Lab. Electronics)
SPOONER, C.E. (U.C., Brain Res. Inst.)
Squire, L.R. (M.I.T., Psychol. Dept.)
Stark, L. (M.I.T., Neurosciences Res. Progr.)
Stephens, G. (U. Minn.)
Stephens, G.J. (U. Minn.)
Stickney, R.E. (M.I.T., Res. Lab Electronics)
Strumwasser, F. (Calif., I.T.)
Tapp, J.W. (Indiana State Hosp.)
Taub, A. (M.I.T., Psychol. Dept.)
Teas, D.C. (M.I.T., Res. Lab Electronics)
Teuber, H-L. (M.I.T., Psychol. Dept.)
Tremor, J.W. (U. Minn.)
Tretiak, O.J. (M.I.T., Res. Lab. Electronics)
Trumble, G.H. (U. Md., Psychol. Dept.)
Twitchell, T. (M.I.T., Psychol. Dept.)
Valenstein, E.S. (Fels Res. Inst.)
Van Pilsum, J.F. (U. Minn.)
Van Trees, H.L. (M.I.T., Res. Lab. Electronics)
Vaughan, E.G. (M.I.T., Psychol. Dept.)
Walk, R.D. (M.I.T., Psychol. Dept.)
Wall, P.D. (M.I.T., Res. Lab. Electronics)
Walter, D.O. (U.C., Brain Res. Inst.)
Wasserman, G.S. (M.I.T., Psychol. Dept.)
Weiss, P.A. (M.I.T., Neurosciences Res. Progr.)
Weiss, T.F. (M.I.T., Res. Lab. Electronics)
Wickelgren, W.A. (M.I.T., Psychol. Dept.)
Wiederhold, M.L. (M.I.T., Res. Lab. Electronics)
Winters, W.D. (U.C., Brain Res. Inst.)
Wozencraft, J.M. (M.I.T., Res. Lab. Electronics)
Wyke, M. (M.I.T., Psychol. Dept.)
Zimmerman, H.J. (M.I.T., Res. Lab. Electronics)
LABORATORY ADDRESSES OF THE BEHAVIORAL BIOLOGY PROGRAM

Baylor University  (Baylor U., Coll. Med.)
College of Medicine
Dept. of Physiology
Houston, Texas,  77025

California Institute of Technology  (Calif. I.T.)
Pasadena, California,  91109

Colorado State University  (Colo. State, Physiol. Dept.)
Dept. of Physiology
Fort Collins, Colorado,  80521

Emory University  (Emory U., Dept. Physiol.)
Dept. of Physiology
Atlanta, Georgia,  30322

Fels Research Institute  (Fels Res. Inst.)
Dept. of Psychophysiology - Neurophysiology
Yellow Springs, Ohio,  45387

Harvard Medical School  (Harvard Med. Sch., Psychiat. Dept.)
Dept. of Psychiatry
Boston, Massachusetts,  02115

Hollins College  (Hollins)
Hollins, Virginia,  24020

Indiana State Hospital  (Indiana State Hosp.)
Outer Lincoln Avenue
Evansville, Indiana,  47702

Indiana University Foundation  (Indiana U. Found.)
Center for Neural Sciences
Bloomington, Indiana,  47401

Institute for Behavioral Research  (Inst. Behav. Res.)
Silver Spring, Maryland,  20910

Johns Hopkins University  (Johns Hopkins, Pavlovian Lab.)
Pavlovian Laboratory
Baltimore, Maryland,  21205

Massachusetts General Hospital  (Mass. Gen'l. Hosp.)
Fruit Street
Boston, Massachusetts,  02114

Massachusetts Institute of Technology  (M.I.T., Neurosciences Res. Progr.)
Neurosciences Research Program
280 Newton Street
Brookline, Massachusetts,  02146

-76-
Massachusetts Institute of Technology (M.I.T., Psychol. Dept.)
Dept. of Psychology
77 Massachusetts Avenue
Cambridge, Massachusetts, 02115

Massachusetts Institute of Technology (M.I.T., Res. Lab. Electronics)
Research Lab. of Electronics
Cambridge, Massachusetts, 02139

Max-Planck Institute (Max-Planck)
Erling-Andecks Uber
Starnberg/Obb., Germany

Michigan State University (Michigan State, Biophysics Dept.)
Biophysics Dept.
East Lansing, Michigan, 48823

National Aeronautics and Space Administration (NASA)
Bioscience Programs
Washington, D.C., 20456

Princeton University (Princeton)
Princeton, New Jersey, 08540

University of California (U.C.L.A.)
Los Angeles, California, 90024

University of California (U.C., Brain Res. Inst.)
Brain Research Institute
Los Angeles, California, 90024

University of Illinois (U. Ill., Coll. Eng.)
College of Engineering
Biophysical Research Lab.
Urbana, Illinois, 61803

University of Kentucky (U. Ky., Coll. Eng.)
College of Engineering
Engineering Experiment Station
Lexington, Kentucky, 40506

University of Maryland (U. Md., Med. Sch.)
Medical School
Baltimore, Maryland, 21201

University of Maryland (U. Md., Psychol. Dept.)
Dept. of Psychology
College Park, Maryland, 20740

University of Minnesota (U. Minn.)
Minneapolis, Minnesota, 55455
University of Southern California (U.S.C., Human Centri.
Environ. Physiol. Dept.)
Human Centrifuge and Environmental Physiology Dept.
Los Angeles, California, 90024

University of Virginia (U. Va.)
Charlottesville, Virginia, 22901

Wallops Station (Wallops)
Wallops Island, Virginia, 23337

Yale University (Yale)
New Haven, Connecticut, 06520
ANALYSIS OF THE PUBLICATION SOURCES

The 428 studies published under the auspices of the Behavioral Biology Program of NASA between 1961 and 1967 are represented by the 16 primary research areas listed in the table on page 80. The categories are arranged in terms of total number of publications, and range from 100 in Neurophysiology to one each in Animal Feeding, Biometeorology, and Physics. For all areas, the greatest number occurred in 1965, when 148 studies were published. A number of reports appeared to fall into more than one category although the various alternatives were closely related fields. In such cases, consideration was given to the journal or book in which it appeared and the orientation of the author(s).

In order to ascertain the trend in the frequency of publications appearing in the primary fields, Figures 1-9 were constructed. These distributions indicate the number of studies published in only the first nine categories of the table, since each of the remaining seven has a total of three or less publications for all years. 1961, 1962, and 1963 were combined for the same reason, i.e., there were only 16 publications during these years. In addition to reports which have already been published, the totals for 1966 include those which are in press. Since the year 1967 is incomplete, it has been omitted from the figures.

Figures 1 (Neurophysiology), 2 (Psychology), 5 (Physiology), 6 (Linguistics and Psycholinguistics), and 8 (Information Science) have rather consistent publication frequencies between 1964 and 1966, whereas Figures 3 (Psychophysiology), 4 (Engineering), 7 (Circadian Rhythms), and 9 (Medicine) show some variability for the same period. The greatest change occurred in Psychology, which dropped from 43.8% in 1961-62-63 to 15.6% in 1964, and in Psychophysiology, which rose from 8.8% in 1965 to 17.9% in 1966.

Each of the primary research areas comprises several subcategories. For example, Neurophysiology included studies in electrophysiology, neurochemistry, memory storage and processing, sensory systems, and neurohistology. Learning, perception, animal behavior, and complex processes are emphasized in Psychology. Psychophysiology consists mainly of learning, emotion, sensation and perception, psychosomatics, and reticular system functions. A good deal of work on cardiovascular and renal problems is found in Physiology, and Information Science covers the fields of programming, coding, and information processing. Finally, most of the research in medicine is concerned with urology.
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Table. Number of studies under the NASA Behavioral Biology Program for the years 1961-1967 according to primary research areas.
Graphic Representation of the Annual Distribution of Publications in the Subdisciplines of Behavioral Biology

Figure 1. Neurophysiology
Figure 2. Psychology
Figure 3. Psychophysiology
Figure 4. Engineering
Figure 5. Physiology
Figure 6. Linguistics and Psycholinguistics
Figure 7. Circadian rhythms
Figure 8. Information sciences
Figure 9. Medicine
The following is an alphabetical list of journals in which some of the 428 articles appeared that resulted from research supported by the NASA Behavioral Biology Program.

The papers of this program branch were more widely distributed among the journals than those of the other offices. Of the 117 journals in which these publications appeared, more than 50% carried only one of these articles and more than 80% carried three or less. The "Journal of the Analysis of Experimental Behavior" carried the largest number of these articles (25) followed by "Science" which had 13. An analysis of the journals in which the serial citations of this program appeared is presented.

Acta Endocrinologica (1)
Acta Endocrinologica Supplementum (Copenhagen) (2)
Acta Oto-Laryngologica (2)
Aerospace Medicine (1)
American Journal of Physiology (1)
American Journal of Psychiatry (3)
American Journal of Psychology (3)
American Philosophical Quarterly (1)
American Surgeon (1)
Anatomical Record (2)
Anesthesiology (1)
Annals of the New York Academy of Sciences (5)
Annals of Otology, Rhinology and Laryngology (1)
Annual Review of Physiology (1)
Applied Optics (1)
Applied Physics Letters (1)
Archives of Environmental Health (2)
Archives Italiennes de Biologie (1)
ACM Communications (Association for Computing Machinery) (2)

Berichte der Bunsengesellschaft fur physikalische Chemie (1)
Biophysical Journal (3)
Brain Research (4)
British Journal of Psychiatry (1)
British Journal of Urology (1)

Child Development (1)
Clinical Research (7)
Cold Spring Harbor Symposia on Quantitative Biology (1)
Comptes Rendus Academie des Sciences Paris (2)

Electroencephalography and Clinical Neurophysiology (6)
Electroencephalography and Clinical Neurophysiology, Supplement (1)
Electronic Letters (1)
Endocrinology (1)
Experientia (2)
Experimental Brain Research (2)
Experimental Neurology (6)

-90-
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<th>Journal Name</th>
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<td>Federation Proceedings</td>
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<td>Information and Control</td>
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<td>ICC Bulletin (International Computation Centre)</td>
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<td>IEEE International Convention Record</td>
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<td>IEEE Proceedings (Institute of Electrical and Electronics Engineers, Inc.)</td>
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<td>IEEE Student Journal</td>
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<td>IEEE Transactions on Bio-Medical Electronics (Institute of Electrical and</td>
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<td>IEEE Transactions on Communications Systems</td>
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<td>IEEE Transactions on Electronic Computers</td>
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<td>IEEE Transactions on Information Theory (Institute of Electrical and</td>
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<td>Journal of Physiology</td>
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Language (1)
Language and Speech (1)
Life Sciences (3)

Modern Language Journal (1)

Nature (6)
Die Naturwissenschaften (1)
Neurology (1)
Neuropsychologia (6)
New Scientist (1)
Nursing Research (1)

Pediatrics (1)
Perceptual and Motor Skills (3)
The Pharmacologist (1)
Physics Today (1)
The Physiologist (6)
Planta (Berlin) (1)
Presse Medicale (1)
Proceedings of the Institution of Electrical Engineers (London) (1)
Proceedings of the National Academy of Sciences (2)
Proceedings of the National Electronics Conference (2)
Proceedings of the Society for Experimental Biology and Medicine (1)
Psychological Record (1)
Psychological Review (2)
Psychonomic Science (12)
Psychosomatic Medicine (1)

Quarterly Journal of Experimental Psychology (2)

Science (13)
Scientia (1)
Scientific American (2)
Surgical Forum (2)

Today (1)
Transactions of the New York Academy of Sciences (1)

Urologia Internationalis (1)

Vision Research (1)

Zeitschrift fur Pflanzenphysiologie (1)
Addendum

1961


1962


1963


1964


Errata Sheet

The following citations should be corrected to read:


#669 in VOLUME II ENVIRONMENTAL BIOLOGY should be cited in VOLUME I as follows: