

NASA TECH BRIEF



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Design Techniques: Stochastic Controllers

Analytic techniques have been derived to aid in the design of nearly optimal linear time-varying sampled-data stochastic controllers. The techniques are intended to aid in the simplification and automation of program designing for control computers. Minimum arithmetic canonical forms, which were developed, are an aid in reducing the number of multiplications and additions that must be performed by a control computer.

Although most of the analytic design techniques considered represent prior art, their compilation in a single volume, which also includes examples of their application to practical control problems, should be of interest to designers and users of process-control and sampled-data systems.

Note:

Complete details may be obtained from:
Technology Utilization Officer
Manned Spacecraft Center
Houston, Texas 77058
Reference: B68-10234

Patent status:

No patent action is contemplated by NASA.
Source: W. S. Widnall
of Massachusetts Institute of Technology
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