

SAMICS ON THE IBM PC

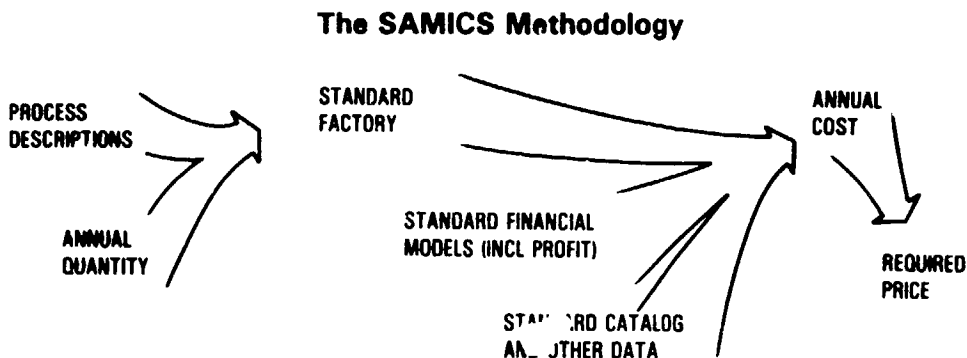
JET PROPULSION LABORATORY

R. Chamberlain

SAMICS

Solar Array Manufacturing Industry Costing Standards consist of

- Std catalog of input prices
- Std process description format
- Std factory design & staffing
- Std financial parameters
- Std methodology for computing required product price

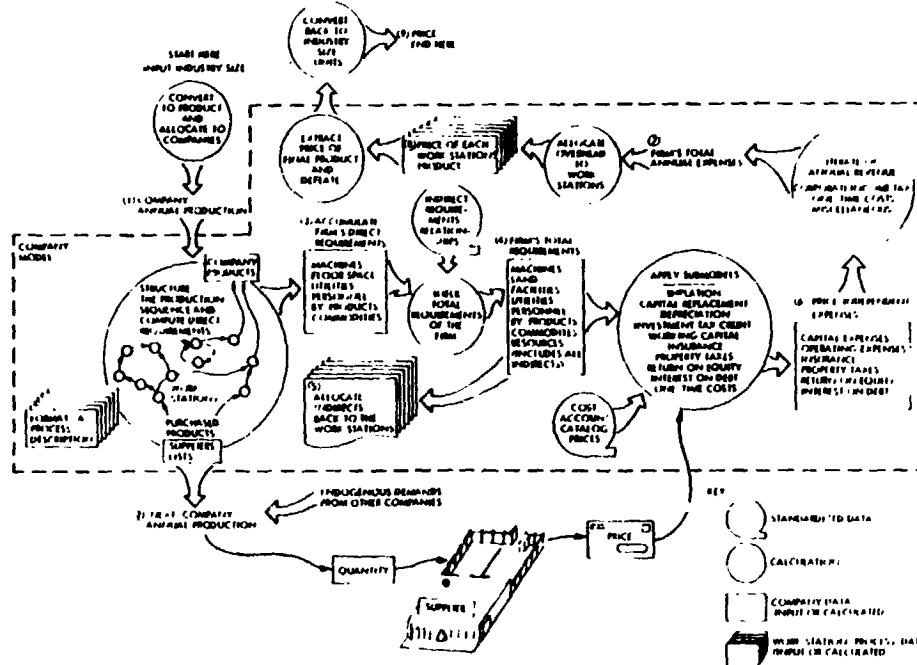


SAMIS and IPEG both implement this methodology

PRECEDING PAGE BLANK NOT FILMED

SAMIS

Standard Assembly-Line Manufacturing Industry Simulation



Complete implementation of all SAMIS non-linearities
 Calibrates IPEG assumptions
 Does catalog look-ups and interpolations and all bookkeeping
 Can vary anything

PROCESS DEVELOPMENT

IPEG

Improved price estimation guidelines

PRICE × QUAN =

$$C_1 \times EQPT + C_2 \times SQFT + C_3 \times DLAB + C_4 \times (MATS + UTIL)$$

Kinds and relative proportions of indirect requirements are fixed
(by a calibrating SAMIS run)

Coefficients provide rules of thumb but are derived from financial
parameters, not input

Bookkeeping needed to get EQPT, SQFT, DLAB, MATS, UTIL
from process descriptions; IPEG does not read process
design changes

IPEG2 = "Back of the envelope "

PC-IPEG responds immediately — can vary financial parameters