

(Continued from page 2J)

libria, and chemical reaction equilibria. Also discussed in individual sections are power plant cycles, internal combustion engines, and refrigeration processes.

Aside from the reviewer's feeling that overemphasis has been placed on generalized correlations insofar as learning thermodynamics is concerned, the present volume represents an improvement in both content and coverage over the previous edition. The topics are well presented and well illustrated, and the text is certainly to be recommended for general use.

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Computer Program Abstracts

Readers of the *A.I.Ch.E. Journal* who are interested in programming for machine computation of chemical engineering problems will find in each issue of *Chemical Engineering Progress* abstracts of programs submitted by companies in the chemical process industries. Collected by the Machine Computation Committee of the A.I.Ch.E., these programs will be published as manuals where sufficient interest is indicated. The following abstracts have appeared this year:

CEP (January, 1960), p. 86

Equilibrium Flash Vaporization (012)

Equilibrium Flash Distillation (035)
Smoker Distillation Program (037)

CEP (February, 1960), p. 90

Electric Log Interpretation (039)
Solution of Counterflow Water Cooling Tower (040)
Operational Characteristics of Isothermal Tubular Flow Reactors (041)

CEP (March, 1960), p. 86

Nonlinear Regression by Criterion of Least Squares (034)
Batch Rectification of Binary Mixtures (042)
Enthalpy Lookup (043)

CEP (April, 1960), p. 80

Multicomponent Extraction of Heavy Metal Nitrates with Tributyl Phosphate Solvents (045)
General Analysis of Variance (047)
Thermodynamic Functions of Diatomic Gases (048)