

Introduction to Engineering Design, Thomas T. Woodson, McGraw-Hill, New York (1966). 434 pages, \$9.95.

There are two ways of teaching engineering design. One method is to give a contemporary design problem to the students and ask them to proceed with its solution, the professor serving as a consultant and source of specialized knowledge. The other method is to study the design procedure and engage the class in going through a consideration of the various stages in design, looking at techniques of design, investigating information sources, studying relationships with economics to engineering, etc. The best design course probably is one which combines that of an intriguing current problem with presentations of material to the students which treats the various components and considerations of design.

Professor Woodson's book is the source of the material which could make an excellent presentation to the students through lectures and reading while they are conducting a design problem. The book is a fine treatment of organization of the design project, estimation and order of magnitude analysis, economics of engineering projects, optimization, computers in design, information sources, etc. A wealth of material useful to students and instructors alike is contained in the book to give them an enlarged view of the various components of the over-all design process.

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Chemical Thermodynamics: A Problems Approach, Norman O. Smith, Reinhold, New York (1967). 278 pages, \$8.50.

As the title indicates, this book was written for the student of chemistry and contains a large number of illustrative problems (about 300). Each of the problems is provided with a worked solution. The problems are not difficult and, in the author's words, "are intended to be instructive rather than challenging or subtle." Since the problems form the bulk of the text and are meant to be worked consecutively, the author's approach has the flavor of programmed instruction.

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