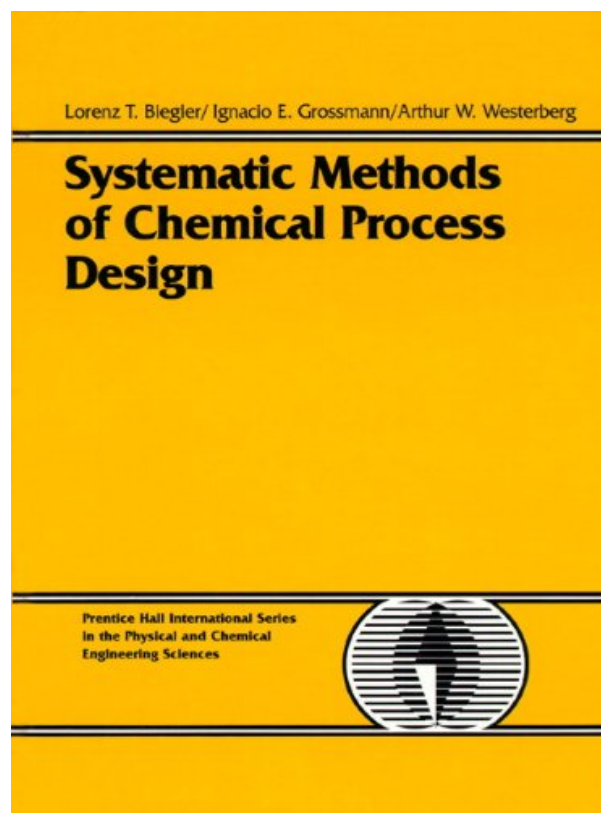


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Systematic Methods of Chemical Process Design

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From the Back Cover

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Brings together all the information engineers and researchers need to develop efficient, cost-effective chemical production processes. The book presents a systematic approach to chemical process design, covering both continuous and batch processes. Starting with the basics, the book then moves on to advanced topics. Among the topics covered are: flowsheet synthesis, mass and energy balances, equipment sizing and costing, economic evaluation, process simulation and optimization. The book also covers specific chemical processes such as distillation systems, reactor networks, separation, and heat exchange networks. It shows how to build more flexible processes, including multiproduct batch processes. Any researcher or practicing engineer involved in designing chemical processes.

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Great book, could be better!

By R D

This is the book that inspired me to pursue my Masters degree at Carnegie Mellon (where all 3 authors teach)...

It's a great book, but you do need to work a lot of exercises and problems on your own-- in that respect I say it could've been better-- a solutions manual or such would be great!

Given that the authors are among the best people in the field of optimization, and having seen them day-to-day, I reckon they just don't have enough time on their hands to do all that. In any case-- it's a great buy!!

12 of 14 people found the following review helpful.

Excellent presentation of optimization algorithmics

By A Customer

The first chapters deal with economics, really elementary material. However, it is a worthwhile discussion of plant sizing and costing. I liked the later chapters on optimization: HENS, MINLP, scheduling, flexibility in processes, etc. Traditional books on optimization will not help you here because they will not show you how to set up your optimization problem. Systematic Methods does this! The book also contains some discussion of liquid-liquid separations.

As far as content is concerned, the book deserves a 5, but there are problems which reflect its first edition status. The index needs reworking (where is the entry for Fenske's equation?), and there are numerous typographic errors which mar the appearance of the presentation.

The book is not example intensive. The reader is expected to think, and to follow the given example requires paper and pencil, not just casual glances. What should be appreciated is that this book is written by the leaders of the field, and the material is absent in other texts. Much of the text reflects research conducted by the authors.

0 of 0 people found the following review helpful.

Excellent equilibrium between process design and optimization

By Cristian Marcelo Antonucci Cos

This book in its paperback version is a good mix between design of chemical process and several and useful methods for optimize the same process a must for every student near to finish chemical engineering and need to dominate this topics for his (her) laboral career

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