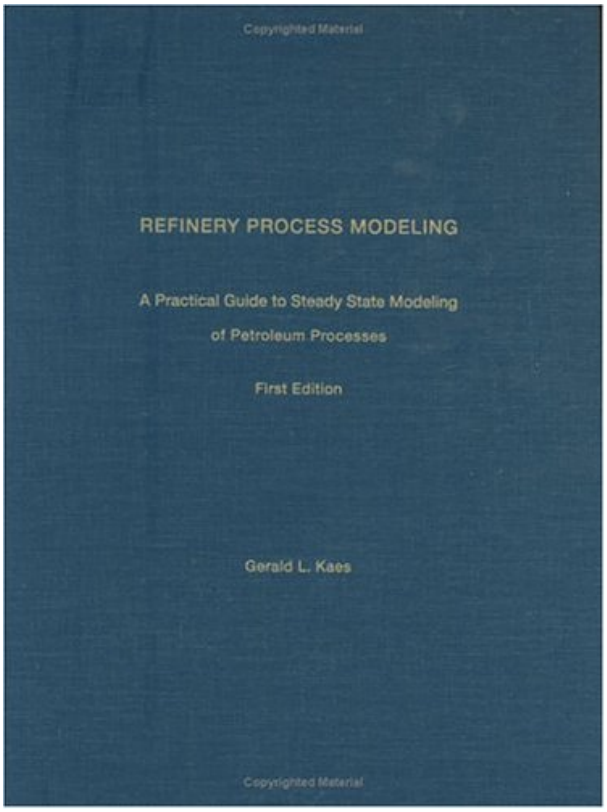
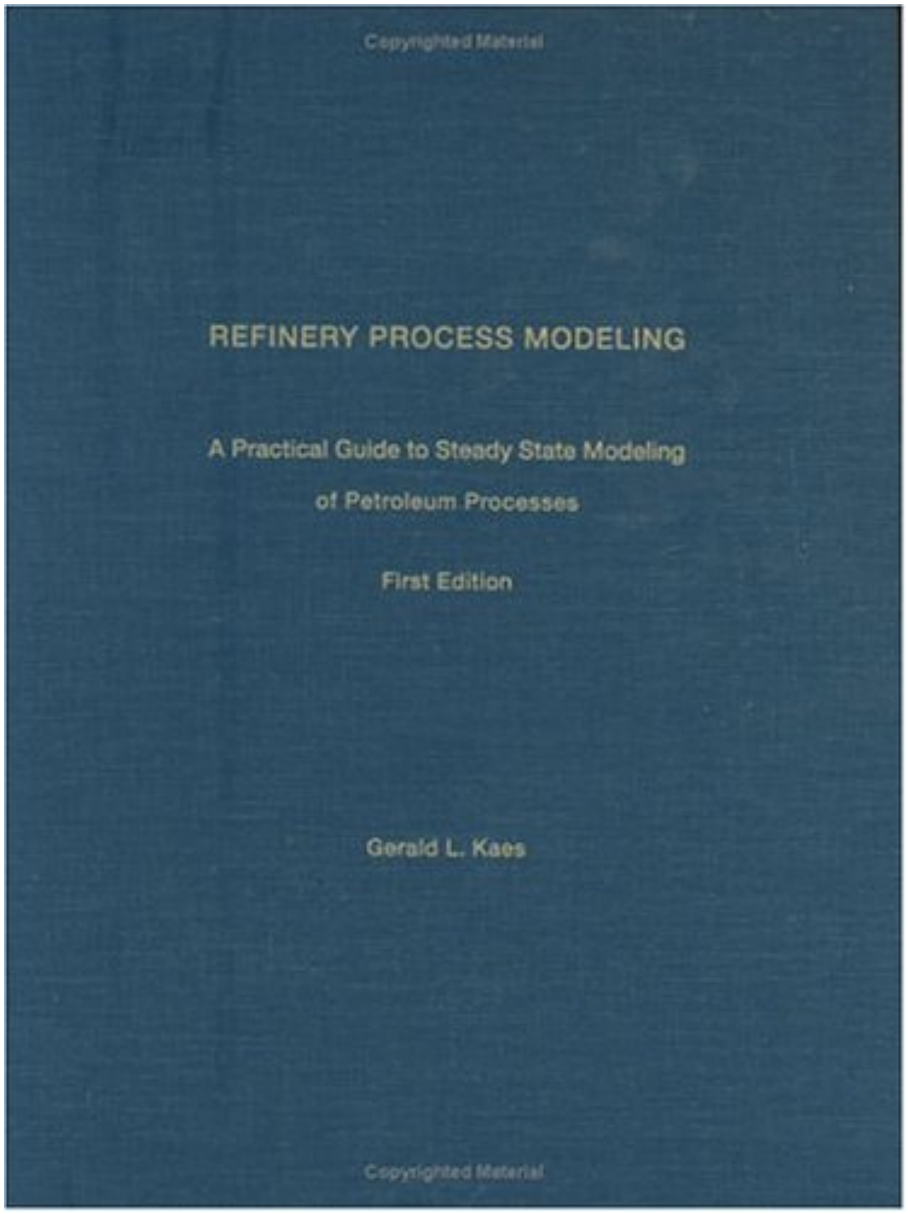
REFINERY PROCESS MODELING BY GERALD L. KAES





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Review
Easy to read and one of the best treatises on a subject usually written in deep technical and mathematical language. -- Marvin Rakow-International Consultant and Trainer in Petroleum Refinery Processing

I know the author and vouch for his very good sense and wealth of experience doing and teaching about simulations. -- James Ryan; Consultant; Chemical Engineering--Distillation and Simulation; Ryan Consulting, Inc; 7 Swallow Lane; Wichita, KS 67230 USA

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This book is written for engineers who use commercial software for their simulation efforts. Because of the enormous costs of developing and maintaining simulation software, most corporations have abandoned their own efforts and use a vendor-supplied simulation program. Commercial simulators are generally based on open-literature methods and may not allow the use of proprietary methods to improve the accuracy of models.

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REFINERY PROCESS MODELING BY GERALD L. KAES PDF

This book is a practical guide to the steady state modeling of petroleum processes (using commercial simulators).

The book bridges the gap between theoretical computer simulator programs and real world refinery processes. It is based on the author's practical experience in modeling refining processes for over 35 years and is the outgrowth of hundreds of training courses he has presented. The simulation techniques are general and may be applied to any commercial simulation program that has the necessary features to model petroleum processes.

Features include:
. Petroleum characteristics and standard laboratory tests
. Procedures for estimating incomplete laboratory test information
. Development of pseudo-components to represent petroleum
. Practical thermodynamic information
. Understandable approach to modeling distillation
. General technical information for processes
. Test data collection and reconciliation for processes
. Simulation techniques for refinery reaction systems
. Simulation procedures for processes
. Processes included are:
-Crude and vacuum distillation
-FCC processes
-Catalytic reforming processes
-Hydrogen processes
-Thermal processes
-Alkylation processes
-Miscellaneous processes

The reader will gain a working knowledge of the petroleum refining processes. The tips and tricks presented in this book will help the reader avoid the time consuming pitfalls so often encountered when developing simulation models.

The book contains a glossary of petroleum and chemical engineering terminology and an extensive index.

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By A Customer
It's one of the best technical books I have ever bought. It's very easy to read, gives very good advice and covers the whole subjet. I also like that the author does not try to sell any process simulator. I hate it when an author tries to sell products with his/her books. This one is very good, because you're helped regardless of the process simulator you prefer.
I recommend buying this book very much.

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Excellent Refinery Process Modeling Textbook
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This is an excellent textbook for engineers involved in refinery process modeling and simulation. Gerald Kaes clearly explains all aspects of the refinery process simulation. I highly recommend this textbook since there is none like it. I also highly recommend all the six illustrative problems that show all the deatails of simulating the most important and critical processes in the refinery.

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This is one kind of a book rarely made for chemical engineers who lost their way in simulation studies. The book uncovers the secrets of refinery unit operations with simple and clear presentation. All the sample problems are also must read to practise as they explain the fundamantal differences between sequencial simulation solvers such as Pro II and back and forth solvers like Hysys. The approach for construction of the simulation study for the same refinery process unit is given both in PRO II and Hysis.
This book can easily compliment as "Basis of Design" in laying out the building blocks for most refinery process simulation studies.
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