



Refinery Process Modeling

Gerald L. Kaes

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This is a paperback version of my book, Refinery Process Modeling, that was originally published in March 2000. The contents are identical to my original book, and the lesser weight makes shipping of the book outside the USA more economical. The subject matter is steady state simulation of oil refineries using commercially available software. The techniques are computer independent and may be applied to any simulator program with the capability of modeling petroleum streams. Subjects covered include petroleum lab tests, representation of refinery feed streams by using typical tests, thermodynamics, modeling distillation columns, refinery reaction processes, and modeling of various refinery flowsheet processes. Refinery processes discussed are: crude and vacuum distillation, FCC processes, catalytic reforming, delayed coking, hydrogen generation, hydrotreating, hydrocracking, sulfuric acid alkylation, HF alkylation, catalytic polymerization, visbreaking, ether processes, and amine treating processes. For each process there is an overview which also includes typical operating conditions. PFD's are included for the processes, as well as powerpoint drawings to illustrate the various modeling techniques. Numerous examples of sample calculations are also used to illustrate the techniques. Also included in the book is a glossary of petroleum terms and a comprehensive index. Since its introduction in March 2000 this book has been widely circulated and used as a training aid throughout the world. Copies have been sold in more than 40 countries outside the USA.

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