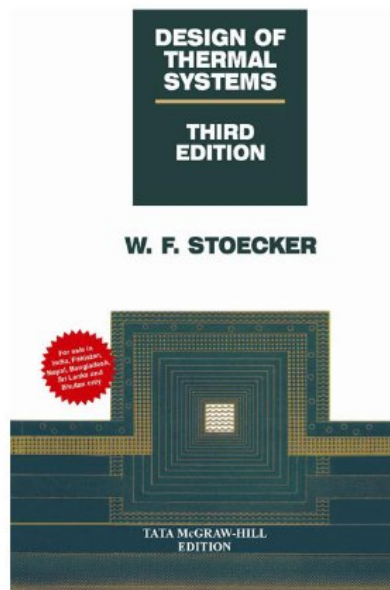


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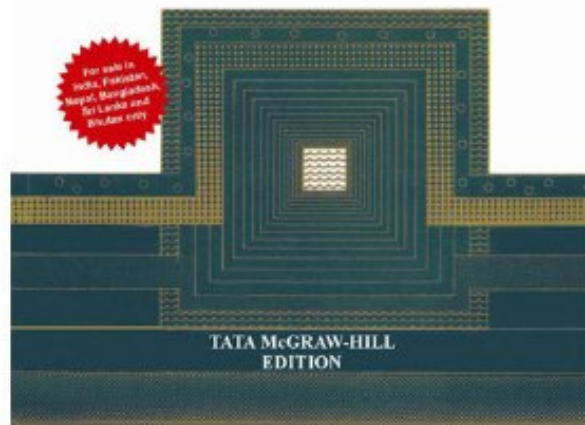
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Slightly Dated Yet Fundamental Reference Text for Thermal System Engineers

By Ronald George

I'm an engineering professional who recently used this book for the study of the Design of Thermal Systems at Rochester Institute of Technology. It is written by William Stoecker, a professor of Mechanical Engineering at the University of Illinois at Urbana-Champaign and published in 1989.

The first two chapters are on engineering design and selecting workable designs. A 3rd chapter introduces engineering economics to forecast system costs in terms of future costs or translate future costs to present costs. The 4th chapter introduces equation fitting to model the behavior of subsystem components based on, say data from a catalog. This is followed by a chapter on system modeling, i.e drawing the functional flow diagram indicating mass transfer and work inputs/outputs from "black" box type unit components. Chapter 6 teaches how to simulate the model which helps in sensitivity studies before or after optimization. Mathematical optimization methods such as Lagrange Multipliers, Search Methods and Linear Programming among others are presented in chapters 8-12. For project work, possibly the best part of the book is contained in the Appendix. It lists thought provoking system design challenges that involve the full breadth and scope of the tools presented in the book.

The 3rd edition of this book can be used within the context of a senior undergraduate or first year graduate curriculum. The reason I write that is because Stoecker makes only passing attempts to elaborate elementary concepts in thermodynamics, heat transfer and fluid mechanics. So be warned since right off the bat, the 2nd chapter presents problems in the analysis of systems for optimization, for example a piping system for water conveyance or the design requirement to heat a swimming pool given various constraints. If it has been a while since you took thermo or heat transfer, you're well advised to use supplemental texts to fill the knowledge gap.

The ideal student of this text is one who is well prepared to face these challenging problems and has some degree of experience with them in actual working life. The merit of the book is in its well thought out problems that have been developed from Stoecker's teaching as well as research into real world design problems.

There is little possibility that a solutions manual for the text can be obtained so it is advised that the student

develop his solutions with his own research and thinking. Socratic discussions with the lecturer to get further insights can always help. Which brings me to the fact that the ideal lecturer is one who has also worked in engineering plants with a number of these systems in actual practice - compressors, pumps, turbines, piping systems, evaporators, condensers etc.

The fundamentals of the math behind the optimization and system simulation may not have changed. But I've rated 4 stars for this book only because its design methodologies can seem a little dated for our times especially. Stocker hasn't really edited the book to present new concepts on concurrent engineering, design for environment, design for manufacturability, quality function deployment, decision trees etc. The meat of the book is in its analysis and optimization as the title says but I still think that the new era engineer will be served better if contemporary upstream methodologies used to generate concepts, arrive at workable solutions etc can be presented in the book. Which is why Adrian Bejan's "Thermal Design and Optimization" is also another excellent text on this subject. Stay tuned for my review of that book!!

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