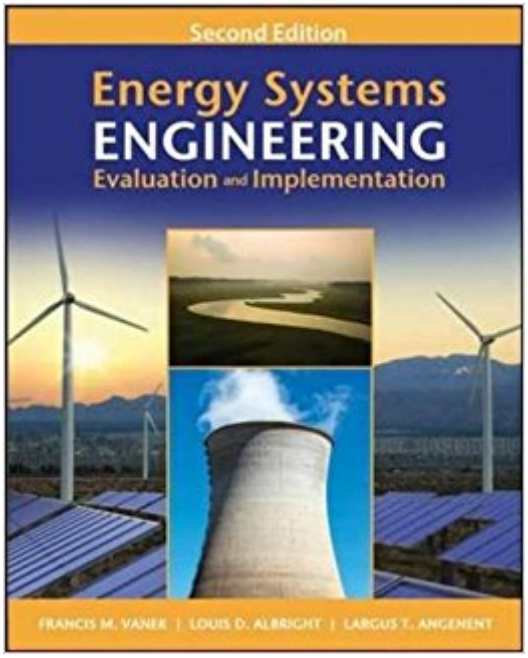
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Energy Systems Engineering: Evaluation And Implementation, Second Edition



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Synopsis

The defining guide to energy systems engineering--updated for the latest technologies "Broad in scope, with focused instructional detail, this text offers a uniquely excellent, student-accessible educational resource for integrating thermodynamic, alternative, and renewable energy conversion processes." -- Professor Randy L. Vander Wal, Department of Materials Science and Engineering, Penn State University "A carefully written book, providing good breadth as well as depth on major conventional and sustainable energy systems." -- Professor David Dillard, Department of Engineering Science & Mechanics, Virginia Tech Fully revised throughout, Energy Systems Engineering, Second Edition discusses fossil, nuclear, and renewable energy sources, emphasizing a technology-neutral, portfolio approach to energy systems options. The book covers major energy technologies, describing how they work, how they are quantitatively evaluated, their cost, and their benefit or impact on the natural environment. Evaluating project scope, cost, energy consumption, and technical efficiency is clearly addressed. Example problems help you to quantify the performance of each technology and better assess its potential. Hundreds of illustrations and end-of-chapter exercises aid in your understanding of the concepts presented in this practical guide. Coverage includes: Systems and economic tools for energy systems Climate change and climate modeling Fossil fuel resources Stationary combustion systems Carbon sequestration Nuclear energy systems Solar resource evaluation Solar photovoltaic technologies Active and passive solar thermal systems Wind energy systems New chapter on energy from biological sources Transportation energy technologies Systems perspective on transportation engineering

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Customer Reviews

Francis M. Vanek, Ph.D., is a lecturer and research assistant in the Departments of Mechanical & Aerospace Engineering and Civil & Environmental Engineering and the Systems Engineering Program at Cornell University, where he specializes in energy efficiency, alternative energy, and energy for transportation. He is also a consultant with Taitem Engineering in Ithaca. Louis D. Albright, Ph.D., is a professor of Biological and Environmental Engineering and Stephen H. Weiss Presidential Fellow at Cornell University. He is also a Fellow of the American Society of Agricultural and Biological Engineers (ASABE). Largus T. Angenent, Ph.D., is associate professor in the Department of Biological and Environmental Engineering at Cornell University, Director of the Agricultural Waste Management Lab, and Faculty Fellow at the Cornell Center for a Sustainable Future. He specializes in converting organic biomass and waste materials into bio-energy, specific energy carrying products such as methane, carboxylates, and n-butanol. Dr. Angenent also works in the areas of biosensors and bio-aerosols.

Unimpressed by the book, tries to cover too much ground and jumps to many assumptions. Exercises at the end go from extremely easy (like doing a simple proportion) to complex calculations involving knowledge of chemistry and in some cases concepts not covered in the book, furthermore even some examples are not well explained and formulas have constants not defined.

Very good book, very informative and easy to read.It gives a general prespective about energy in the world and also gives tools how to deal with energy analysis.

Wow! Very fast shipping and great deal.

Good book.

Great book!

Good quality book for my daughter to use.

The book was in great conditions. The textbook discussed the topics clearly. It was a good read for my sustainability class.

I was not impressed by the second edition of this book. There were several typos in the text and tables. Also, calculations and equations were miss guiding because of multiple assumptions.

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