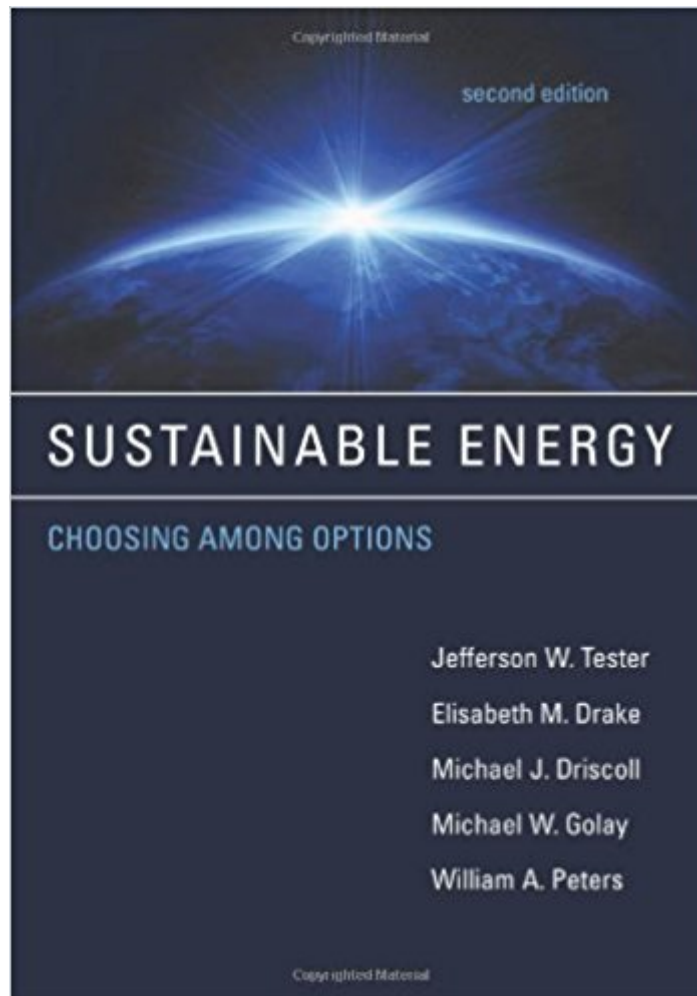




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Sustainable Energy: Choosing Among Options (MIT Press)



Synopsis

Human survival depends on a continuing supply of energy, but the need for ever-increasing amounts of it poses a dilemma: How can we find energy sources that are sustainable and ways to convert and utilize energy that are more efficient? This widely used textbook is designed for advanced undergraduate and graduate students as well as others who have an interest in exploring energy resource options and technologies with a view toward achieving sustainability on local, national, and global scales. It clearly presents the tradeoffs and uncertainties inherent in evaluating and choosing sound energy portfolios and provides a framework for assessing policy solutions. The second edition examines the broader aspects of energy use, including resource estimation, environmental effects, and economic evaluations; reviews the main energy sources of today and tomorrow, from fossil fuels and nuclear power to biomass, hydropower, and solar energy; treats energy carriers and energy storage, transmission, and distribution; addresses end-use patterns in the transportation, industrial, and building sectors; and considers synergistic complex systems. This new edition also offers updated statistical data and references; a new chapter on the complex interactions among energy, water, and land use; expanded coverage of renewable energy; and new color illustrations. Sustainable Energy addresses the challenges of making responsible energy choices for a more sustainable future.

Book Information

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Customer Reviews

"For some time I have searched for a comprehensive text on sustainable energy, and I have found it here. This book by Jefferson Tester and his colleagues will be the field's benchmark in the future. It is wonderfully broad in scope, yet detailed in its presentation of the material."--Fred K. Browand, Department of Aerospace and Mechanical Engineering, University of Southern California

"At last, sustainable energy can be taught from a single textbook one that is balanced, worldly, comprehensive, and challenging. Watch out, teachers! Science and engineering students are going to demand courses that use this book." Robert Socolow, Department of Mechanical and Aerospace Engineering, Princeton University

"Sustainable Energy provides the intellectual tools and perspectives needed to devise a sound strategy for ensuring sustainability." Jack Gibbons, former Presidential Science Advisor and former Director, Office of Science and Technology Policy

"This book with its references and links is an excellent source text for anyone considering a course on energy options for the future and for anyone else interested in understanding the science and argument which underlie the debate on energy options for a sustainable future." R. John Sandeman

International Journal of Environmental Studies

"At last, sustainable energy can be taught from a single textbook -- one that is balanced, worldly, comprehensive, and challenging. Watch out, teachers! Science and engineering students are going to demand courses that use this book."--Robert Socolow, Department of Mechanical and Aerospace Engineering, Princeton University

Jefferson W. Tester is Croll Professor of Sustainable Energy Systems at Cornell University. Elisabeth M. Drake is Emeritus Researcher at the MIT Energy Initiative. Michael J. Driscoll is Professor Emeritus of Nuclear Science and Engineering at MIT. Michael W. Golay is Professor of Nuclear Science and Engineering at MIT. William A. Peters is Executive Director of the Institute for Soldier Nanotechnologies at MIT.

This book was one I was required to buy for a class, and it was overall an interesting book, with a large repertoire of information. There are only two problems I want to highlight. One, the book was very wordy and somewhat informal. This might be better for some people but it was not something I liked. I felt I could have been told the information much more succinctly. Two, the questions at the end of the book (which are presumably used for homework, as they were in my case) were horrible. To answer the questions it takes many external resources as the book does not delve deeply enough into its own themes. There were also a few typos in the book, but I have yet to encounter a

textbook that does *not* have typos.

As a student with little to no experience in the field, some topics and language can be overwhelming. As an electrical engineer, I have some background into the technologies presented. However, some concepts are either presented lightly or ambiguously. The later chapters cover some technologies in-depth and present their uses and future well. However, the intro chapters present a steep learning curve for the reader. Would recommend as a reference.

I use this book as the reference for Sustainable Energy Systems course in my program of study. It's a thousand-pages book which covers many aspects of sustainability around various energy sources. I have gone just through two first chapters of the book and cannot provide more comments about the contents. I got the book from "firstclassbooks" which was slightly cheaper than other sellers. Packaging was OK and it was delivered in 7 days which is pretty normal for standard shipping.

We are consuming our world, there is no doubt about it... the main problem today are greenhouse gases and the planet overheating... but the truth is that earth passed during the past millenniums through a series of climate changes, some of them with the presence of human beings, some other without humans. Our kind already faced one ice age, but... are we ready to face a new climate change?, the earth will survive, but, if we are not ready to face this change, will we survive this?? This book is an overview of what human activity has done to our planet, and some answers on how to reverse the situation. Maybe we still have some time to react...

Excellent book! Quick shipping and the product was as described!

Great condition and just as advertised.

This book is good if you want to read through all 1000+ pages, but it's not a good book for actually going through and calculating values for different energy methods.

A book not only covers various energy technologies but also discusses the pro and con among them. A must should be read for sustainable energy.

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