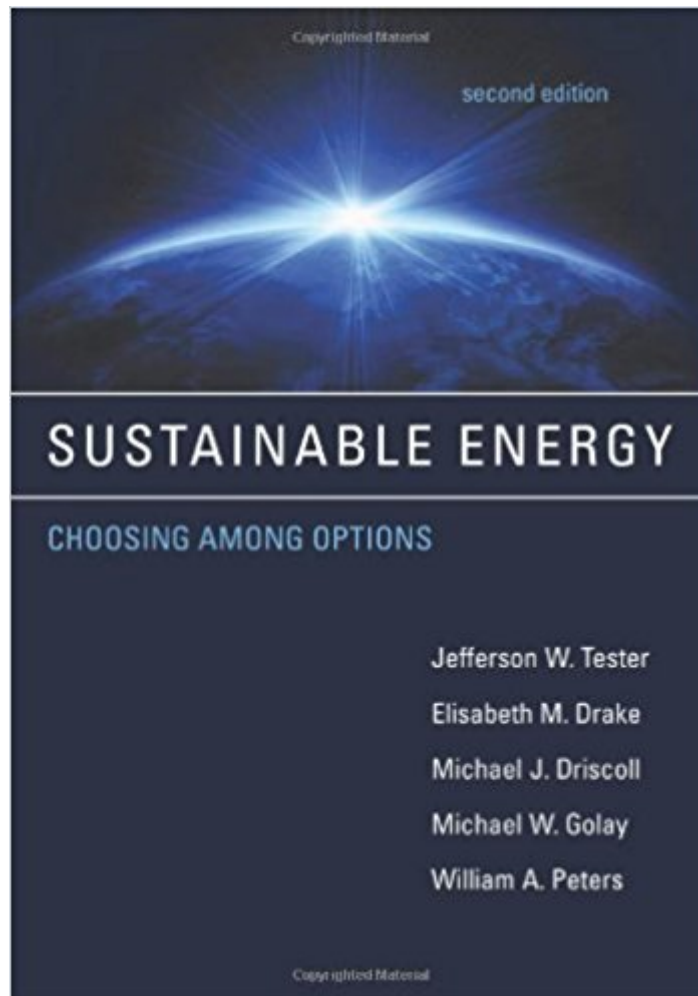




Ebook Directory
the best source of ebook

The book was found

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

Series: MIT Press

Hardcover: 1056 pages

Publisher: The MIT Press; second edition edition (September 28, 2012)

Language: English

ISBN-10: 0262017474

ISBN-13: 978-0262017473

Product Dimensions: 7 x 2 x 9 inches

Shipping Weight: 3.9 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars 28 customer reviews

Best Sellers Rank: #113,792 in Books (See Top 100 in Books) #28 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable](#) #129 in [Books > Politics & Social Sciences > Politics & Government > Public Affairs & Policy > Environmental Policy](#) #193 in [Books > Textbooks > Science & Mathematics > Environmental Studies](#)

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 milleniums through a serie 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 changes, will we survive this?? This book is a overview of what human activity have done to our planet, and some answers on how to reverse the situation. Maybe we still have some time to react...

Exellent 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 cover various energy technologies but also discuss the pro and con among them. A must should be read for sustainable energy.

[Download to continue reading...](#)

Options Trading For Beginners: Learn How To Get Started and Make Money With Options Trading
Options - Binary Options - Index Options - Currency ...
ETF (Options Trading - Finance - Money) Sustainable Energy: Choosing Among Options
(MIT Press) Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and
Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing
for Beginners Book 1) The Nine Elements of a Sustainable Campus (MIT Press) Choosing to
Preach: A Comprehensive Introduction to Sermon Options and Structures Ethnic Options: Choosing
Identities in America Positive Options for Children with Asthma: Everything Parents Need to Know
(Positive Options for Health) Positive Options for Colorectal Cancer, Second Edition: Self-Help and
Treatment (Positive Options for Health) Positive Options for Living with COPD: Self-Help and
Treatment for Chronic Obstructive Pulmonary Disease (Positive Options for Health) Positive Options
for Living with Lupus: Self-Help and Treatment (Positive Options for Health) Options Trading:
Beginner Strategies And Techniques To Trade Options Profitably Options Trading Made Simple:
Discover the 2 Tools the Ultra-Rich Use for Asset Protection and Accelerated Wealth Creation.
(Learn Stock Options Trading Series Book 1) Options Trading: Beginner Guide to Crash It with
Options Trading Options Trading: QuickStart Guide: The Simplified Beginner's Guide to Options
Trading The Ultimate Options Trading Strategy Guide for Beginners: The Fundamental Basics of
Options Trading and Six Profitable Strategies Simplified like Never Before Day Trading: Trading
Guide: Make Money on Stocks, Options & Forex (Trading, Day Trading, Stock, Options, Trading
Strategies) Positive Options for Sjögren's Syndrome: Self-Help and Treatment (Positive Options
Series) Options Where Water is Scarce: Chapter 3 of Agricultural Options for Small-Scale Farmers
Options for Restoring Unproductive Soils: Chapter 2 of Agricultural Options for Small-Scale Farmers
The Renewable Energy Handbook: A Guide to Rural Energy Independence, Off-Grid and
Sustainable Living

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)