



# The Science of Renewable Energy

*Frank R. Spellman, Revonna M. Bieber*

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As time goes forward, the availability of affordable and accessible petroleum products decreases while the negative environmental impact increases. If we want to sustain our current way of life, which includes massive energy consumption, it is necessary to find alternatives to fossil fuels to prevent fuel shortages and to preserve and repair the environment around us. **The Science of Renewable Energy** presents a no-nonsense discussion of the importance of renewable energy, while adhering to scientific principles, models, and observations. The text includes in-depth discussions of emerging technologies, including biomass and fuel cells, and major sources of renewable energy, such as ocean, hydro, solar, and wind energy.

To provide a fundamental understanding of the basic concepts of renewable energy, the book also offers an extensive discussion on the basics of electricity, since it is applied to and produced from all forms of renewable energy. While emphasizing the technical aspects and practical applications of renewable sources, the text also covers the economic, social, and policy implications of large-scale implementation. The main focus of the book is on methods of obtaining energy from self-replenishing natural processes while limiting pollution of the atmosphere, water, and soil, as this is a critical pathway for the future. Exploring the subject from a scientific perspective highlights the need for renewable energy and helps to evaluate the task at hand.

The book is written for a wide range of readers, including students of diverse backgrounds and individuals in the energy industries, and presents the material in a user-friendly manner. Even individuals can have an impact on the quest to develop renewable energy sources. The concepts and guidelines described provide critical scientific rationale for pursuing clean and efficient energy sources as well as the knowledge needed to understand the complex issues involved. Woven with real-life situations, the text presents both the advantages and challenges of the different types of renewable energy.

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