



Fundamentals of Renewable Energy Processes

By Aldo V. da Rosa

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Fundamentals of Renewable Energy Processes contains the technical detail necessary to understand the engineering principles that govern renewable energy application at many different levels. Focused on the fundamental mechanisms and processes that underpin energy management, it provides students with the foundation for all energy process courses.

This text is organized according to the main forms of energy - heat engines, hydrogen energy, energy from the sun, and wind and water energy - with an introductory chapter of basic energy terms. From fuel cells, electrolyzers, and processes for hydrogen production to biomass and windmills the author provides the most thorough examination of all aspects of renewable energy processes.

The book is recommended for all students and professionals studying the basic mechanisms of renewable energies.

- * Examines the fundamentals of some non-traditional energy processes and illustrates the best way to implement these processes in our modern world.
- * Appropriate for all students and professionals studying the basic mechanisms of renewable energies.
- * Clear theory and physical examples of all principles relevant to the study of renewable energy.
- * Written by an internationally recognized pioneer researcher

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Editorial Review

From the Back Cover

- Examines non-traditional energy processes and illustrates the best way to implement these processes in our modern world
- Appropriate for all students and professionals studying the basic mechanisms of renewable energies Every technical detail necessary to understand the engineering principles that govern renewable energy is captured in this book. The book is organized according to the main forms of energy - heat engines, hydrogen energy, energy from the sun, and wind and water energy - with an introductory chapter of basic energy terms. From fuel cells, electrolyzers and processes for hydrogen production to biomass and windmills the author provides a thorough examination of renewable energy processes.

About the Author

Dr. da Rosa taught the perennially popular Renewable Energy course at Stanford University for over 30 years. Former Chairman of the Brazilian National Research Council, Director of the Aeronautical Technical Center, and founder of Brazilian NASA, he also served as the CEO of a tech start-up, Chairman of the Board for a microprocessor manufacturer, and as a member of Siemens Corporation's scientific advisory board.

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