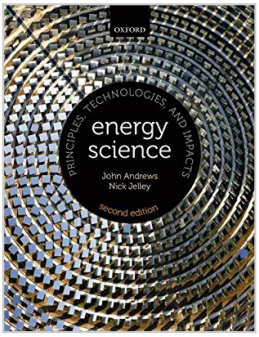

Energy Science: Principles, technologies, and impacts

By John Andrews, Nick Jelley

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Do renewable energy sources really provide a realistic alternative to fossil fuels? How much power can be obtained from all the various forms of energy? Can global warming be combated with the energy technologies currently available?

Energy Science: Principles, Technologies, and Impacts enables the reader to evaluate the key sources of energy available to us today on the basis of sound, quantitative understanding. Covering renewable, fossil fuel, and nuclear energy sources, the book relates the science behind these sources to the environmental and socioeconomic issues which surround their use to provide a balanced, objective overview. It also explores the practicalities of energy generation, storage, and
transmission, to build a complete picture of energy supply, from wind turbines, nuclear reactors, or hydroelectric dams, to our homes.

Different energy sources have different social, environmental, and economic impacts. The authors use examples and case studies throughout to help the reader make quantitative estimates and critically assess the information to hand in order to reach a well-rounded, informed view of the relative merits and drawbacks of the energy sources available.

The problems with current and future energy use and supply extend globally; Energy Science: Principles, Technologies, and Impacts introduces the potential solutions that science can offer, within a framework that encourages the critical assessment of the pros and cons of each.

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- Sales Rank: #1156554 in eBooks
- Published on: 2013-03-14
- Released on: 2013-03-14
- Format: Kindle eBook

Editorial Review

Review
Review from previous edition: "A major strength of this book is its format, as it guides the reader through each energy type with a gradual building of knowledge." --The Higher Education Academy December 2009

"As educators what we need is a good source of information to examine competing ideas and to show students what sort of questions need to be asked. This is a very useful text. Its value lies in the degree to which the science of energy is inter-linked with issues of safety, environment etc. For those aiming to deal with this area in more detail than normally found, this is a very good place to start." --Ecological and Environmental Education, February 2007

About the Author
John Andrews is Visiting Fellow at Bristol University, UK. Nick Jelley is Professor of Physics at the University of Oxford and Fellow at Lincoln College, UK.

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