



Alternative Energy Resources : The Quest for Sustainable Energy

By Paul Kruger

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Alternative Energy Resources : The Quest for Sustainable Energy By Paul Kruger

A balanced introduction to tomorrow's energy sources

Over the course of the next fifty years, there will be a shift in the quest for sustainable energy, including a major change in transportation from internal combustion engines burning petroleum-derived fuels to newer technology engines using new transportation fuels. Alternative Energy Resources examines our options for energy sources with a focus on hydrogen as a large-scale, secondary energy vector parallel to electricity.

As the price of petroleum products increases, the world is scrambling to find a suitable replacement energy source. In this comprehensive primer, Professor Paul Kruger examines energy use throughout history and the exponential expansion of our energy use beginning with the Industrial Revolution through the present day. The book then analyzes the various alternative energy sources available, including renewable energy (hydroelectric, solar, wind, biomass, and geothermal), nuclear, and hydrogen. He addresses each energy source's pros and cons based on our needs, availability, and environmental impact aspects. Finally, Dr. Kruger proposes the use of hydrogen as a fuel to sustain our energy supply produced by appropriate technology mixtures of renewable and nuclear energy.

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Editorial Review

Review

"...makes for an excellent introductory text on a subject whose importance is sure to last well into the future." (*Civil Engineering*, 5/2006)

From the Back Cover

A balanced introduction to tomorrow's energy sources

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About the Author

PAUL KRUGER is Professor Emeritus at Stanford University. He has worked in both industry and academia in the areas of energy and the environment.

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