

Energy Management Principles, Second Edition: Applications, Benefits, Savings

By Craig B. Smith, Kelly E. Parmenter

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Energy Management Principles, Second Edition: Applications, Benefits, Savings By Craig B. Smith, Kelly E. Parmenter

Energy Management Principles: Applications, Benefits, Savings, Second Edition is a comprehensive guide to the fundamental principles and systematic processes of maintaining and improving energy efficiency and reducing waste.

Fully revised and updated with analysis of world energy utilization, incentives and utility rates, and new content highlighting how energy efficiency can be achieved through 1 of 16 outlined principles and programs, the book presents cost effective analysis, case studies, global examples, and guidance on building and site auditing.

This fully revised edition provides a theoretical basis for conservation, as well as the avenues for its application, and by doing so, outlines the potential for cost reductions through an analysis of inefficiencies.

- Provides extensive coverage of all major fundamental energy management principles
- Applies general principles to all major components of energy use, such as HVAC, electrical end use and lighting, and transportation
- Describes how to initiate an energy management program for a building, a process, a farm or an industrial facility

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Editorial Review

About the Author
Dr. Smith has over 40 years of experience in engineering and construction. He served as co-chair on three international conferences on energy use management and has published over 100 technical papers and articles. In addition, he is the author, editor, or co-author of a number of books. Efficient Electricity Use, (2nd Ed.) Pergamon Press, Oxford, England, 1977, was named “outstanding academic book of the year” by the American Library Association’s Choice magazine; it was followed by Energy Management Principles, Pergamon Press, Oxford, England, 1981; How the Great Pyramid Was Built, Smithsonian Institution Press, Washington, D.C., 2004, and Extreme Waves, Joseph Henry Press, Washington D.C., 2006. In addition, he has contributed several chapters to the CRC energy handbook, Economics of Solar Energy and Conservation Systems, 1980, and then subsequent editions of this book in 1997 (now titled The Handbook of Energy Efficiency), the next edition of the CRC Handbook of Energy Efficiency and Renewable Energy, Taylor and Francis, London, 2007, and the latest version, due out in fall 2015. He has a B.S in electrical engineering from Stanford University and a M.S and Ph.D. in engineering from UCLA.

Dr. Parmenter has over 20 years’ experience in the energy sector as an energy consultant and project manager. She is currently a Principal Project Manager for Applied Energy Group’s Program Evaluation and Load Analysis practice area where she manages program evaluations for utility clients, including analyzing savings for energy efficiency and demand response projects. Previously, she led the Engineering Services team, providing energy audits at commercial and industrial facilities and delivering a wide range of technical support to utility clients. Throughout her energy career she has carried out numerous projects that involve identifying, assessing, and furthering the development of emerging technologies and solutions to improve energy efficiency and reduce adverse environmental impacts. Dr. Parmenter is a Certified Energy Manager and holds B.S., M.S., and Ph.D. degrees in Mechanical Engineering from the University of California, Santa Barbara. She has authored over 100 energy-related reports and articles for various clients on numerous subjects.

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