



# Sustaining Power Resources through Energy Optimization and Engineering

By Pandian Vasant



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As the world continues to evolve technologically, people depend more heavily on energy-dependent systems to fulfill their daily needs. However, as these needs grow, it is important to develop sustainable systems that are reliable, as well as environmentally sound.

**Sustaining Power Resources through Energy Optimization and Engineering** highlights the sustainable development and efficient operation of energy systems being provided to consumers. Featuring emergent research and trends within the area of power optimization and engineering, this book is a crucial reference source for engineers, researchers, sustainability experts, and professionals interested in the improvement and usage of infrastructural energy systems.

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# Sustaining Power Resources through Energy Optimization and Engineering

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### Editorial Review

About the Author

**Pandian Vasant** is a senior lecturer at Department of Fundamental and Applied Sciences, Universiti Teknologi PETRONAS in Malaysia. His research interests include Soft Computing, Hybrid Optimization, Holistic Optimization and Applications. He has co-authored research papers and articles in national journals, international journals, conference proceedings, conference paper presentation, and special issues lead guest editor, lead guest editor for book chapters project, conference abstracts, edited books and book chapters. In the year 2009, P. Vasant was awarded top reviewer for the journal Applied Soft Computing (Elsevier). Currently his Editor-in-Chief of IJCO and IJEOE and Editor of GJTO.

**Nikolai I. Voropai** is director of the Energy Systems Institute (Siberian Energy Institute until 1997) of the Russian Academy of Science, Irkutsk, Russia. He was born in Belarus in 1943. He graduated from the Leningrad (St. Petersburg) Polytechnic Institute in 1966. N. I. Voropai received his degrees of Candidate of Technical Sciences at the Leningrad Polytechnic Institute in 1974 and Doctor of Technical Sciences at the Siberian Energy Institute in 1990. His research interests include: modeling of power systems, operation and dynamics performance of large power grids; reliability and security of power systems; development of national, international and intercontinental power grids; liberalization of power industry. He is the Chairman of the International Workshop on Reliability Problems of Energy Systems, CIGRE Member, IEEE Fellow Member.

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