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Guide to Energy Management, Ninth Edition

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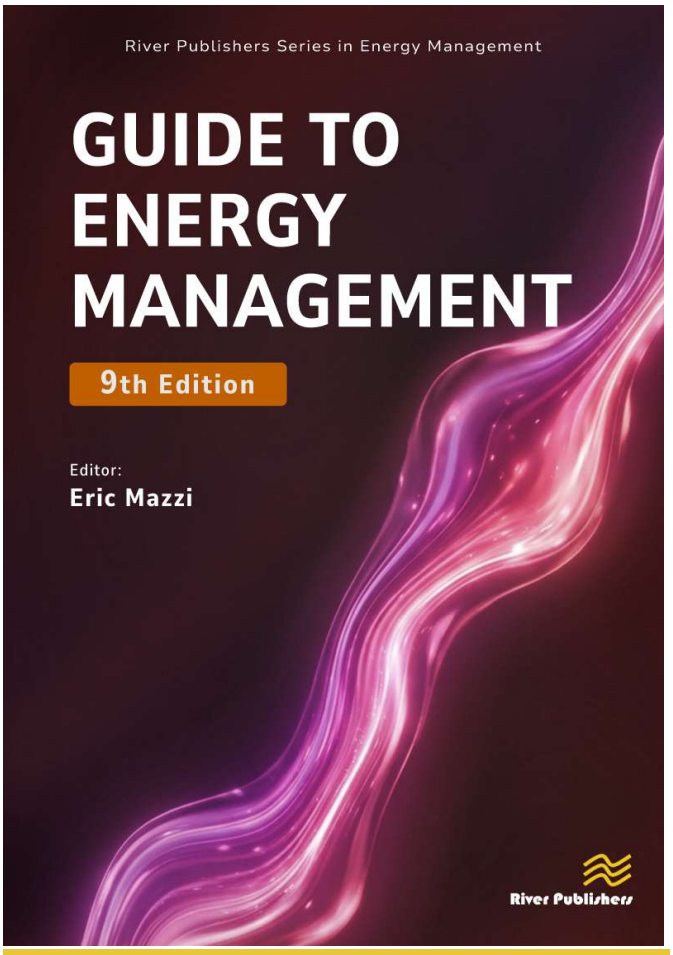
The 9th edition of the Guide to Energy Management (GTEM) is a comprehensive resource for demand-side energy and carbon management for homes, commercial/institutional buildings, and industrial plants. It is a multi-disciplinary, practical guide for practitioners, educators, and learners to develop behind-the-meter energy efficiency and climate-resiliency solutions for facilities.

Essential methodologies and technologies for energy and climate solutions are described, beginning with fundamentals, and also including practical solutions that experienced professionals can utilize. Technical solutions include thermal and electric system efficiency, distributed energy systems, storage, commissioning, and maintenance. Climate fundamentals are introduced, as well as practical methods, energy sources, and technologies to decarbonize facilities and adapt to a changing climate. So called "soft skills" are covered including economics, energy rate structures, project finance, behavior change practices, and energy management systems.

The GTEM is unique in emphasizing that people are part of energy systems, with practical tools and methods for energy teams, data collection, and behavior change practices. Also emphasized throughout the book is the fact that energy systems exist to deliver services that people need and want. The challenge for professionals is to develop cost-effective, integrated solutions that are designed to meet or exceed service requirements, while potentially delivering multiple benefits such as utility cost savings, life cycle cost optimization, energy efficiency, GHG reduction, climate resiliency, and energy equity.

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