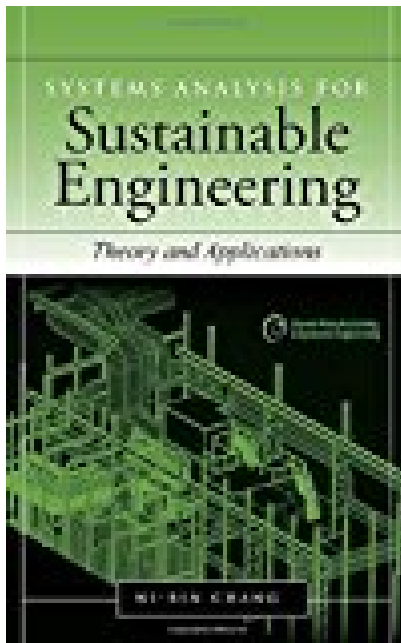


Systems Analysis for Sustainable Engineering Theory and Applications

Green Manufacturing & Systems Engineering



BOOK DETAILS

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- Pages : 704 Pages
- Publisher : McGraw-Hill Education
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BOOK SYNOPSIS

IMPLEMENT SYSTEMS ANALYSIS TOOLS IN SUSTAINABLE ENGINEERING

Featuring a multidisciplinary approach, *Systems Analysis for Sustainable Engineering: Theory and Applications* provides a proven framework for applying systems analysis tools to account for environmental impacts, energy efficiency, cost-effectiveness, socioeconomic implications, and ecosystem health in engineering solutions. This pioneering work addresses the increased levels of sophistication embedded in many complex large-scale infrastructure systems and their interactions with the natural environment. After a detailed overview of sustainable systems engineering, the book covers mathematical theories of systems analysis, environmental resources management, industrial ecology, and sustainable design. Real-world examples highlight the methodologies presented in this authoritative resource. **COVERAGE INCLUDES:** Structured systems analysis for sustainable design Systems analysis and sustainable management strategies Economic valuation, instruments, and project selection Statistical forecasting models Linear, nonlinear, integer, and dynamic programming models Multicriteria decision analyses System dynamics models and simulation analyses Water resources and quality management Air quality management Solid waste management Soil and groundwater remediation planning Industrial ecology and sustainability Green building and green infrastructure systems Energy resources management and energy systems engineering Land resources management and agricultural sustainability

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