



Systems Analysis for Sustainable Engineering: Theory and Applications (Green Manufacturing & Systems Engineering)

Ni-Bin Chang

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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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