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KEY BENEFIT: The first book of its kind devoted completely to industrial ecology/green engineering, this introduction uses industrial ecology principles and cases to ground the discussion of sustainable engineering-and offers practical and reasonable approaches to design decisions. KEY TOPICS: Technology and Sustainability; Industrial Ecology(IE) and Sustainable Engineering (SE) Concepts; Relevance of Biological Ecology to Technology; Metabolic Analysis; Technological Change and Evolving Risk; Social Dimensions of Industrial Ecology; Concept of Sustainability; SE; Industrial Product Development; Design for Environment and for Sustainability; Introduction to Life-Cycle Assessment; LCA Impact and Interpretation Stages; Streamlining the LCA Process; Systems Analysis; Industrial Ecosystems; Material Flow Analysis; National Material Accounts; Energy and IE; Water and IE; Urban IE; Modeling in IE; Scenarios for IE; Status of Resources; IE and SE in Developing Countries; IE and Sustainability in the Corporation/Government/Society MARKET: A useful reference for professionals in environmental science, environmental policy, and engineering.