



Systems Analysis and Modeling: A Macro-to-Micro Approach with Multidisciplinary Applications

Donald W. Boyd

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This book presents a fresh, new approach to systems analysis and modeling with a systems science flavor that stimulates systems thinking. After introducing systems modeling principles, the ensuing wide selection of examples aptly illustrate that anything which changes over time can be modeled as a system. Each example begins with a knowledge base that displays relevant information obtained from systems analysis. The diversity of examples clearly establishes a new protocol for synthesizing systems models.

- * Macro-to-micro, top-down approach
- * Multidisciplinary examples
- * Incorporation of human knowledge to synthesise a systems model
- * Clear and concise systems delimitation
- * Complex systems using simple mathematics
- * "Exact" reproduction of historical data plus model generated secondary data
- * Systems simulation via systems models

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