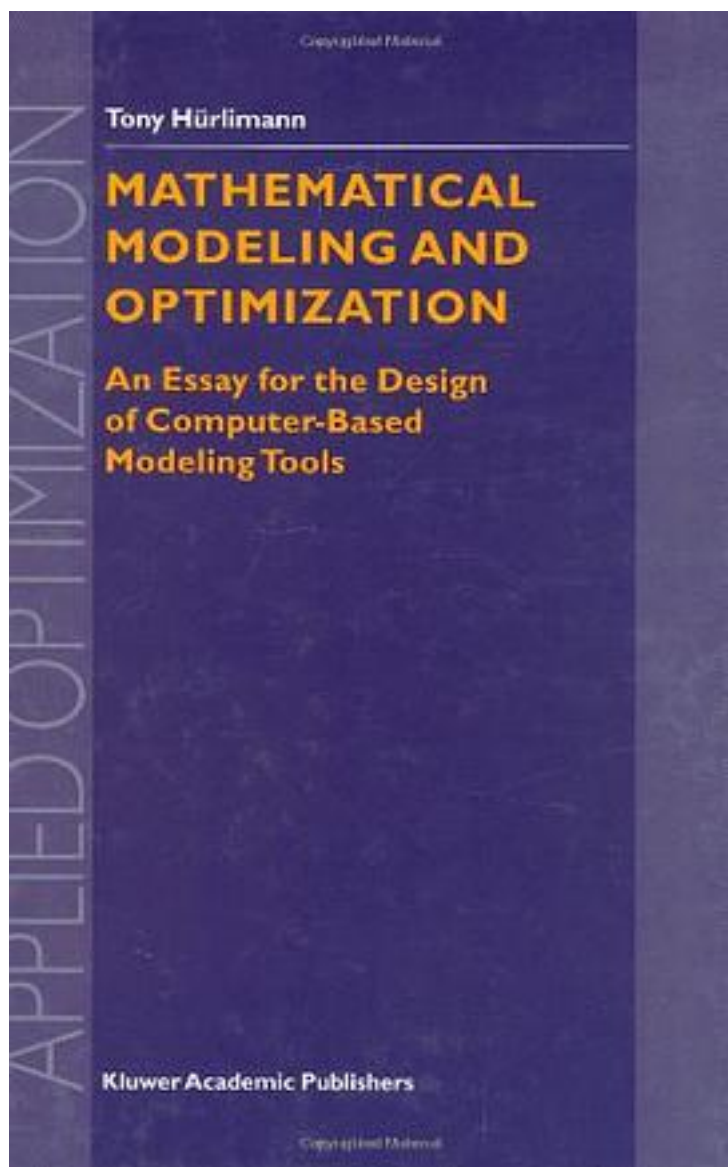# Mathematical Modeling and Optimization

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The book proposes concepts and a general framework for computer-based modeling. It puts forward a modeling language as a kernel representation for mathematical models. It explores fundamental features of models and defines the notion of mathematical model and other related concepts. It gives a comprehensive overview of the modeling life cycle. The most frequently used methodologies of modeling management systems actually available are reviewed and a new framework in computer-based modeling is proposed. The book not only gives a theoretical foundation of modeling, but presents a concrete implementation using the modeling language LPL. It includes many concrete applications. All models and the complete software can be downloaded from the Web free of charge. Audience: This book is intended for modeling tool designers, as well as students and teachers in mathematical modeling, and for real-live model 'practitioners'.

作者介绍:

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