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The reactor model was simulated based on a discrete lumped model approach to kinetic modeling. The kinetic and product distribution parameters were fine-tuned

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using available industrial data. The real-coded elitist nondominated sorting genetic algorithm was used to carry out the multi-objective optimization study.

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In this study, the transfer matrix method for multibody systems is used to study the vibration characteristics of a tracked vehicle system. The transfer matrix method has the advantages of not needing the global dynamics equations of the system, low order of system matrices, and fast dynamics computation speed.

~~Dynamics modeling, simulation, and optimization of ...~~

Modeling, Simulation, and Optimization
of Traffic Flow Networks | SIAM Journal
on Scientific Computing | Vol. 25, No. 3 |
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Mathematics. A new model for highway traffic networks based on a detailed description of the junctions is presented. To obtain suitable conditions at the junctions, multilane equations are introduced and invest...

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Optimization exists in two main branches of operations research: Optimization parametric (static) □ The objective is to find the values of the parameters, which are □static□ for all states, with the goal of maximizing or minimizing a function. In this case, one can use mathematical programming, such as linear programming. In this scenario, simulation helps when the parameters contain noise or the evaluation of the problem would demand excessive computer time, due to its complexity ...

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~~Simulation based optimization~~
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The purpose of this book is to offer readers important topics on the modeling, simulation, and optimization of distillation processes. The book is divided into four main sections: the first section is introduction to the topic, the second presents work related to distillation process modeling, the third deals with the modeling of phase equilibrium, one of the most important steps of distillation p...

~~Distillation—Modelling, Simulation and
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Chinese J. Chem. Eng., 14 (5) 58491
(2006) Modeling, Simulation and
Optimization of a Whole Industrial
Catalytic Naphtha Reforming Process on
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Optimization (\$ ^^) and CHU National
Laboratory of Industrial Control
Technology, Institute of Advanced Process
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Hence, this study focuses on modeling and simulation of LDPE tubular reactor and its optimization for multiple objectives for operation, design and grade-change policies. A detailed survey of modeling studies on LDPE tubular reactors in the literature showed significant discrepancies in the kinetic rate parameters from different sources.

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engineers, and managers to gain deeper insights and optimize complex systems and processes across a wide range of industries.

This proceedings volume contains a selection of papers presented at the symposium "International Conference on High Performance Scientific Computing" held at the Hanoi Institute of Mathematics of the Vietnam National Center for Natural Science and Technology (NCST), March 10-14, 2003. The conference has been organized by the Hanoi Institute of Mathematics, SFB 359 "Reactive Flows, Transport and Diffusion", Heidelberg, Ho Chi Minh City University of Technology and Interdisciplinary Center for Scientific Computing (IWR), Heidelberg. The contributions cover the broad interdisciplinary spectrum of scientific

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Optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields.

This title is an up-to-date introduction to the mathematical theory of supply chains, which focuses on those supply chain networks which are described by partial differential equations. The book discusses modeling of complex supply networks as well as their mathematical theory. In addition, the authors investigate the optimization of some of the discussed models and present the analytical and numerical results on optimization

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problems. Practical examples demonstrate the applicability of the presented approaches. The book provides an introduction to the topic and also explores the more advanced theoretical and numerical background. Graduate students and researchers, who wish to stay abreast of the latest developments in this field, will be interested in this book; it may be used to teach advanced courses on modeling of physical phenomena as well as introductory courses on supply chain theory.

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contributions cover the broad interdisciplinary spectrum of scientific computing and present recent advances in theory, development of methods, and applications in practice. Subjects covered are mathematical modelling, numerical simulation, methods for optimization and control, parallel computing, software development, applications of scientific computing in physics, mechanics, biology and medicine, engineering, hydrology problems, transport, communication networks, production scheduling, industrial and commercial problems.

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The proposed book will be divided into three parts. The chapters in Part I provide an overview of certain aspect of process retrofitting. The focus of Part II is on computational techniques for solving process retrofit problems. Finally, Part III addresses retrofit applications from diverse process industries. Some chapters in the book are contributed by practitioners whereas others are from academia. Hence, the book includes both new developments from research and also practical considerations. Many chapters include examples with realistic data. All these feature make the book useful to industrial engineers, researchers and students.

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