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Integrated design and simulation of chemical processes. Bildea,
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principles of process systems engineering, leading to integrated
sustainable processes with 'green' attributes.

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The TIA and LA have been designed using the TSMC 0.18 μm CMOS technology in the Cadence Virtuoso Custom Design Platform. A bandwidth of TIA is larger than 2.02 GHz and a gain of 77dB have been achieved, and after integrated with limiting amplifier, the bandwidth is around 10GHz and the output voltage has reached to more than hundreds with the input current signal of about 1 μA .

This comprehensive work shows how to design and develop innovative, optimal and sustainable chemical processes by applying the principles of process systems engineering, leading to integrated sustainable processes with 'green' attributes. Generic systematic methods are employed, supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models. New to the second edition are chapters on product design and batch processes with applications in specialty chemicals, process intensification methods for designing compact equipment with high energetic efficiency, plantwide control for managing the key factors affecting the plant dynamics and operation, health, safety and environment issues, as well as sustainability analysis for achieving high environmental performance. All chapters are completely rewritten or have been revised. This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students, being compatible with academic requirements world-wide. The inclusion of the newest design methods will be of great value to professional chemical engineers. Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis, creation and assessment Emphasis on sustainable development for the future of process industries

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This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques. The material covers five sections: process simulation; thermodynamic methods; process synthesis; process integration; and design project including case studies. It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects, but will also be of great value to professional engineers interested in the newest design methods. Provides an introduction to the newest design methods. Of great

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value to undergraduate and postgraduate students as well as professional engineers. Numerous examples illustrate theoretical principles and design issues.

Integrated Design of Multiscale, Multifunctional Materials and Products is the first of its type to consider not only design of materials, but concurrent design of materials and products. In other words, materials are not just selected on the basis of properties, but the composition and/or microstructure is designed to satisfy specific targeted sets of performance requirements. This book presents the motivation for pursuing concurrent design of materials and products, thoroughly discussing the details of multiscale modeling and multilevel robust design and provides details of the design methods/strategies along with selected examples of designing material attributes for specified system performance. It is intended as a monograph to serve as a foundational reference for instructors of courses at the senior and introductory graduate level in departments of materials science and engineering, mechanical engineering, aerospace engineering and civil engineering who are interested in next generation systems-based design of materials. First of its kind to consider not only design of materials, but concurrent design of materials and products Treatment of uncertainty via robust design of materials Integrates the "materials by design approach" of Olson/Ques Tek LLC with the "materials selection" approach of Ashby/Granta Distinguishes the processes of concurrent design of materials and products as an overall systems design problem from the field of multiscale modeling Systematic mathematical algorithms and methods are introduced for robust design of materials, rather than ad hoc heuristics--it is oriented towards a true systems approach to design of materials and products

Applications in Design and Simulation of Sustainable Chemical Processes addresses the challenging applications in designing eco-friendly but efficient chemical processes, including recent advances

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in chemistry and catalysis that rely on renewable raw materials. Grounded in the fundamental knowledge of chemistry, thermodynamics, chemical reaction engineering and unit operations, this book is an indispensable resource for developing and designing innovating chemical processes by employing computer simulations as an efficient conceptual tool. Targeted to graduate and post graduate students in chemical engineering, as well as to professionals, the book aims to advance their skills in process innovation and conceptual design. The work completes the book Integrated Design and Simulation of Chemical Processes by Elsevier (2014) authored by the same team. Includes comprehensive case studies of innovative processes based on renewable raw materials Outlines Process Systems Engineering approach with emphasis on systematic design methods Employs steady-state and dynamic process simulation as problem analysis and flowsheet creation tool Applies modern concepts, as process integration and intensification, for enhancing the sustainability

This book presents recent advances in the integration and the optimization of product design and manufacturing systems. The book is divided into 3 chapters corresponding to the following three main topics : - optimization of product design process (mechanical design process, mass customization, modeling the product representation, computer support for engineering design, support systems for tolerancing, simulation and optimization tools for structures and for mechanisms and robots), -optimization of manufacturing systems (multi-criteria optimization and fuzzy volumes, tooth path generation, machine-tools behavior, surface integrity and precision, process simulation), - methodological aspects of integrated design and manufacturing (solid modeling, collaborative tools and knowledge formalization, integrating product and process design and innovation, robust and reliable design, multi-agent approach in VR environment). The present book is of interest to engineers, researchers, academic staff, and

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postgraduate students interested in integrated design and manufacturing in mechanical engineering.

This book presents a selection of papers related to the fifth edition of book further to the International Conference on Integrated Design and Manufacturing in Mechanical Engineering. This Conference has been organized within the framework of the activities of the AIP-PRIMECA network whose main scientific field is Integrated Design applied to both Mechanical Engineering and Productics. This network is organized along the lines of a joint project: the evolution, in the field of training of Integrated Design in Mechanics and Productics, in quite close connection with the ever changing industrial needs over the past 20 years. It is in charge of promoting both exchanges of experience and know-how capitalisation. It has a paramount mission to fulfil, be it in the field of initial and continuous education, technological transfer and knowledge dissemination through strong links with research labs. For the second time, in fact, the IDMME Conference has been held abroad and, after Canada in 2000, the United Kingdom, more particularly Bath University, has been retained under the responsibility of Professor Alan Bramley, the Chairman of the Scientific Committee of the conference. The Scientific Committee members have selected all the lectures from complete papers, which is the guarantee for the Conference of quite an outstanding scientific level. After that, a new selection has been carried out to retain the best publications, which establish in a book, a state-of-the-art analysis as regards Integrated Design and Manufacturing in the discipline of Mechanical Engineering.

The book addresses the overall integrated design aspects of a space transportation system involving several disciplines like propulsion, vehicle structures, aerodynamics, flight mechanics, navigation, guidance and control systems, stage auxiliary systems, thermal systems etc. and discusses the system approach for design, trade off

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analysis, system life cycle considerations, important aspects in mission management, the risk assessment, etc. There are several books authored to describe the design aspects of various areas, viz., propulsion, aerodynamics, structures, control, etc., but there is no book which presents space transportation system (STS) design in an integrated manner. This book attempts to fill this gap by addressing systems approach for STS design, highlighting the integrated design aspects, interactions between various subsystems and interdependencies. The main focus is towards the complex integrated design to arrive at an optimum, robust and cost effective space transportation system. The orbital mechanics of satellites including different coordinate frames, orbital perturbations and orbital transfers are explained. For launching the satellites to meet specific mission requirements, viz., payload/orbit, design considerations, giving step by step procedure are briefed. The selection methodology for launch vehicle configuration, its optimum staging and the factors which influence the vehicle performance are summarized. The influence of external, internal and dynamic operating environments experienced by the vehicle subsystems and the remedial measures needed are highlighted. The mission design strategies and their influence on the vehicle design process are elaborated. The various critical aspects of STS subsystems like flight mechanics, propulsion, structures and materials, thermal systems, stage auxiliary systems, navigation, guidance and control and the interdependencies and interactions between them are covered. The design guidelines, complexity of the flight environment and the reentry dynamics for the reentry missions are included. The book is not targeted as a design tool for any particular discipline or subsystem. Some of the design related equations or expressions are not attempted to derive from the first principle as this is beyond the scope of this book. However, the important analytical expressions, graphs and sketches which are essential to provide in-depth understanding for the design process as well as to understand the interactions between different subsystems are appropriately

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- First-order DC response
- Unified closed-loop model
- Accurate modeling of DC response
- Frequency and step response
- Multi-pole dynamic response and stability
- Effect of external network on differential gain
- Continuous-time and discrete-time amplifiers
- MOSFET, NMOS, and PMOS characteristics
- Small-signal modeling and circuit analysis
- Resistor and capacitor design
- Current sources, sinks, and mirrors
- Basic, symmetrical, folded-cascode, and Miller OTAs
- Opamps with source-follower and common-source output stages
- Fully differential OTAs and opamps

This volume contains the selected papers of the first I.D.M.M.E. conference on 'Integrated Design and Manufacturing in Mechanical Engineering', held in Nantes from 15-17 April 1996. Its objective was to discuss the questions related to the definition of the optimal design and manufacturing processes and to their integration through coherent methodologies in adapted environments. The initiative of the Conference and the organization thereof, is mainly

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due to the efforts of the french PRIMECA group (Pool of Computer Resources for Mechanics) started eight years ago. We were able to attract the international community with the support of the International Institution for Production Engineering Research (C.I.R.P.). The conference brought together two hundred and fifty specialists from around the world. About ninety papers and twenty posters were presented covering three main topics : optimization and evaluation of the product design process, optimization and evaluation of the manufacturing systems and methodological aspects.

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