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Optimization of Chemical Processes Analysis and Synthesis of Chemical Process Systems Analysis, Synthesis, and Design of Chemical Processes Analysis, Synthesis, and Design of Chemical Processes, Fifth Edition Encyclopedia of Chemical Processing and Design Scale-up Methodology for Chemical Processes Chemical Engineering and Chemical Process Technology - Volume V Novel Process Windows Integrated Design and Simulation of Chemical Processes Manual of Chemical Technology Encyclopedia of Chemical Processing and Design Chemical Process Computations Optimization of chemical processes Chemical Reactions and Processes Under Flow Conditions Elementary Principles of Chemical Processes Program Transactions of the Institution of Chemical Engineers Process Design Journal of the Chemical Society Elementary Principles of Chemical Processes Thomas F. Edgar K. Hartmann Richard Turton Richard Bailie C.. Wallace Whiting B.. Joseph Shaeiwitz A.. Richard Turton. Debangsu Bhattacharyya John J. McKetta Jr Jean-Paul Euzen Ryzhard Pohorecki Volker Hessel Alexandre C. Dimian Johannes Rudolf Wagner John J. McKetta Jr Raghu Raman Thomas F. Edgar Santiago V. Luis Richard M. Felder Bryn Mawr College Institution of Chemical Engineers (Great Britain) Helmut Mothes Chemical Society (Great Britain) Richard M. Felder

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the methods used by chemists and chemical engineers for the conception design and operation of chemical process systems have undergone significant changes in the last 10 years the most important of modern computer aided techniques are process analysis and process system synthesis both of which are closely related the first part of the book presents the principles of model building simulation and model application on the basis of an appropriate set of hierarchical levels of chemical systems the general strategy of analysis by deterministic and statistical methods is treated the second part deals with process system synthesis beginning with reaction path analysis one of the major features of this part are new methods for the synthesis of reactor networks separation sequences heat exchanger systems and entire chemical process systems by a combined procedure of heuristic rules and fuzzy set algorithms this procedure which is known as knowledge engineering is an efficient combination of human creativity and theoretically based knowledge this book which is illustrated by examples should prove extremely useful as a text for a senior graduate course for students of chemistry and chemical engineering and will also be invaluable for chemists and chemical engineers in research and industry and specialists dealing with the analysis and synthesis of process systems

more than ever effective design is the focal point of sound chemical engineering analysis synthesis and design of chemical processes third edition presents design as a creative process that integrates both the big picture and the small details

written by engineers for engineers with over 150 international editorial advisory board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

having gained considerable experience in process development at the institut francais du petrole the authors present a design framework a review of the available means of investigation and several examples illustrating their methodology of industrial process scale up the salient feature of the book is the fact that it addresses a

subject which is vital in view of its economic repercussions yet relatively unknown in technical and scientific circles due to the confidentiality surrounding it contents 1 main guidelines of the methodology 2 various types of model 3 pilot plants and mock ups 4 experimental techniques 5 applications to industrial process development 6 conclusions references index

chemical engineering and chemical process technology is a theme component of encyclopedia of chemical sciences engineering and technology resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty encyclopedias chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state these changes may concern size energy content composition and or other application properties chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others it also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development the theme on chemical engineering and chemical process technology deals in five volumes and covers several topics such as fundamentals of chemical engineering unit operations fluids unit operations solids chemical reaction engineering process development modeling optimization and control process management the future of chemical engineering chemical engineering education main products which are then expanded into multiple subtopics each as a chapter these five volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

this book introduces the concept of novel process windows focusing on cost improvements safety energy and eco efficiency throughout each step of the process the first part presents the new reactor and process related technologies introducing the potential and benefit analysis the core of the book details scenarios for unusual parameter sets and the new holistic and systemic approach to processing while the final part analyses the implications for green and cost efficient processing with its practical approach this is invaluable reading for those working in the pharmaceutical fine chemicals fuels and oils industries

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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pharmaceutical and fine chemical products are typically synthesised batchwise which is an anomaly since batch processes have a series of practical and economical disadvantages on the contrary flow continuous processes present a series of advantages leading to new ways to synthesise chemical products flow processes enable control reaction parameters more precisely temperature residence time amount of reagents and solvent etc leading to better reproducibility safer and more reliable processes can be performed more advantageously using immobilized reagents or catalysts improve the selectivity and productivity of the process and possibly even the stability of the catalyst offer opportunities for heat exchange and energy conservation as well as an easy separation and recycling of the reactants and products by adequate process design achieve multistep syntheses by assembling a line of reactors with minimum or no purification in between two reaction steps can be assured by facile automation scale up can be easily conducted by number up with all the new research activity in manufacturing chemical products this comprehensive book is very timely as it summarises the latest trends in organic synthesis it gives an insight into flow continuous processes outlining the basic concepts and explaining the terminology of and systems

approach to process design dealing with both homogeneous and heterogeneous catalysis and mini or micro reactors the book contains case studies extensive bibliographies and reference lists in each chapter to enable the reader to grasp the contents and to go on to more detailed texts on specific subjects if desired the book is written by both organic chemists and engineers giving a multidisciplinary vision of the new tools and methodologies in this field it is essential reading for organic chemists in industry or academia working alongside chemical engineers or who want to undertake chemical engineering projects it will also be of interest for chemical engineers to see how basic engineering concepts are applied in modern organic chemistry

this book promotes process design strategies and methods to chemical engineering students and encourages experienced engineers to reflect on and perhaps challenge their daily approach to process design the production facilities and supply chains of the chemical industry represent complex global systems built on sophisticated technological processes while process design of the past could rely on steadily growing economies creating a predictable framework of product demand raw material availability and technological progress today global competition shorter product cycles unreliable raw material supplies and emerging disruptive technologies create new challenges to the design of efficient flexible and sustainable processes a holistic design methodology has to take care of these challenges process design can build on many excellent chemical engineering textbooks focusing on unit operations process intensification or process integration only a few books address the creative step finding an initial process structure process design methodologies constitute the main topic of this book a special focus is given to the search for an optimal process structure process synthesis since an inferior process structure cannot be upgraded into an optimal process during later extensive optimization of process parameters regardless of the effort the design methodology illustrated in the textbook first outlines alternate strategies to find an initial process structure hierarchical approach or superstructure concepts with heuristic rules or mixed integer non linear programming the role of design targets to guide a process designer is shown for energy integration and capital investment in a next design step process intensification and integration are used to improve the initial process structure with respect to unit operation efficiencies heating cooling and mixing and process synergies heat power integration reaction distillation dividing wall column etc resulting in superior processes the last step of the process design methodology introduces the concept of no regret solutions these no regret solutions aim at process designs offering a robust performance in different future scenarios fluctuating or unexpected product demand modular designs offer a powerful tool to establish highly flexible chemical processes the design methodology is demonstrated in a comprehensive design case dealing with 6 chemical processes integrated into a production site

the design procedure to derive process and plant structures is illustrated in a step by step approach to a large extend this book on process design builds on experiences of the author at bayer technology services the book includes the input of many bayer people technical contributions exciting suggestions and enlightening discussions the book summarizes courses on process intensification and process design given by the author at the technical university dresden tu dresden 2008 east china university of science and technology ecust shanghai 2012 2014 and ruhr university bochum rub 2014 2015

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gain a better understanding of chemical processes this text will provide you with a realistic informative introduction to chemical processes this 3rd edition has been completely revised to provide you with increased clarity including hundreds of new and revised problems and new case studies cover a broader spectrum of chemical engineering applications guidance for solving problems that require spread sheeting and equation solving software a cd rom that provides an active learning environment with this software students respond to questions and receive immediate feedback explore variations in process parameters and see the effect of their changes on process operations and more 2005 edition icons in the text margin let you know when it s most helpful to use the icpp cd rom and the student workbook

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