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written by an excellent highly experienced and motivated team of lecturers this textbook is based on one of the most successful courses in catalysis and as such is tried and tested by generations of graduate and phd students i e the catalysis an integrated approach caia course organized by niok the dutch catalysis research school it covers all essential aspects of this important topic including homogeneous heterogeneous and biocatalysis but also kinetics catalyst characterization and preparation reactor design and engineering the perfect source of information for graduate and phd students in chemistry and chemical engineering as well as for scientists wanting to refresh their knowledge

in this textbook the author teaches readers how to model and simulate a unit process operation through developing mathematical model equations solving model equations manually and comparing results with those simulated through software it covers both lumped parameter systems and distributed parameter systems as well as using matlab and simulink to solve the system model equations for both simplified partial differential equations are solved using consol an effective tool to solve pde using the fine element method this book includes end of chapter problems and worked examples and summarizes reader goals at the beginning of each chapter

the progress in polymer science is revealed in the chapters of polymer science a comprehensive reference ten volume set in volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods volume 4 is devoted to

kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins romp as well as to various less common polymerization techniques polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in volume 5 volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates many of the achievements would have not been possible without new characterization techniques like afm that allowed direct imaging of single molecules and nano objects with a precision available only recently an entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in volume 7 it encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 it deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces the last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers they discuss new technologies needed for a sustainable economy in our world of limited resources provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work electronic version has complete cross referencing and multi media components volume editors are world experts in their field including a nobel prize winner

an innovative approach that helps students move from the classroom to professional practice this text offers a comprehensive unified methodology to analyze and design chemical reactors using a reaction based design formulation rather than the common species based design formulation the book s acclaimed approach addresses the weaknesses of current pedagogy by giving readers the knowledge and tools needed to address the technical challenges they will face in practice principles of chemical reactor analysis and design prepares readers to design and operate real chemical reactors and to troubleshoot any technical problems that may arise the text s unified methodology is applicable to both single and multiple chemical reactions to all reactor configurations and to all forms of rate expression this text also describes reactor operations in terms of dimensionless design equations generating dimensionless operating curves that depict the progress of individual chemical reactions the composition of species and the temperature combines all parameters that affect heat transfer into a single dimensionless number that can be estimated a priori accounts for all variations in the heat capacity of the reacting fluid develops a complete framework for economic based optimization of reactor operations problems at the end of each chapter are categorized by their level of difficulty from one to four giving readers the opportunity to test and develop their skills graduate and advanced undergraduate chemical engineering students will find that this text s unified approach better prepares them for professional practice by teaching them the actual skills needed to design and analyze chemical reactors

provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals covers theoretical aspects and examples of fixed bed fluidized bed trickle bed slurry monolith and microchannel reactors includes chapters covering experimental techniques and practical guidelines for lab scale testing of multiphase reactors includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools involves detailed coverage of multiphase reactor applications such as fischer tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing

dieser band befasst sich mit chemischen grundlagen technischen anwendungen und wirtschaftlichen gesichtspunkten des ozons wobei der schwerpunkt auf der behandlung von wasser und abwasser durch ozonisierung liegt nach einer einleitung kommen zunächst toxikologie reaktionsmechanismen und grundsätzliche einsatzmöglichkeiten zur sprache der hintere teil ist eher praktisch ausgerichtet mit kapiteln zu versuchsanordnungen ausrüstung analytischen verfahren sowie informationen zu stofftransport und reaktionskinetik bei industrieprozessen

learn chemical reaction engineering through reasoning not memorization essentials of chemical reaction engineering is the complete modern introduction to chemical reaction engineering for today s undergraduate students starting from the strengths of his classic elements of chemical reaction engineering fourth edition in this volume h scott fogler added new material and distilled the essentials for undergraduate students fogler s unique way of presenting the material helps students gain a deep intuitive understanding of the field s essentials through reasoning using a cre algorithm not memorization he especially focuses on important new energy and safety issues ranging from solar and biomass applications to the avoidance of runaway reactions thoroughly classroom tested this text reflects feedback from hundreds of students at the university of michigan and other leading universities it also provides new resources to help students discover how reactors behave in diverse situations including many realistic interactive simulations on dvd rom new coverage includes greater emphasis on safety following the recommendations of the chemical safety board csb discussion of crucial safety topics including ammonium nitrate cstr explosions case studies of the nitroaniline explosion and the t2 laboratories batch reactor runaway solar energy conversions chemical thermal and catalytic water spilling algae production for biomass steady state nonisothermal reactor design flow reactors with heat exchange unsteady state nonisothermal reactor design with case studies of reactor explosions about the dvd rom the dvd contains six additional graduate level chapters covering catalyst decay external diffusion effects on heterogeneous reactions diffusion and reaction distribution of residence times for reactors models for non ideal reactors and radial and axial temperature variations in tubular reactions extensive additional dvd resources include summary notes modules additional examples derivations audio commentary and self tests interactive computer games that review and apply important chapter concepts innovative living example problems with polymath code that can be loaded directly from the dvd so students can play with the solution to get an innate feeling of how reactors operate a 15 day trial of polymatha is included along with a link to the fogler polymath site a complete new aspentech tutorial and four complete example problems visual encyclopedia of equipment reactor lab and other intuitive tools more than 500 powerpoint slides of lecture notes additional updates applications and information are available at umich edu essen and essentialsofcre com

this covers chemical reactions and kinetics for engineers and increased emphasis has been placed on numerical solutions to reaction engineering problems

get cutting edge coverage of all chemical engineering topics from fundamentals to the latest computer applications first published in 1934 perry s chemical engineers handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data now updated to reflect the latest technology and processes of the new millennium the eighth edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications filled with over 700 detailed illustrations the eighth edition of perry s chemcial engineering handbook features comprehensive tables and charts for unit conversion a greatly expanded section on physical and chemical data new to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories inside this updated chemical engineering guide conversion factors and mathematical symbols physical and chemical data mathematics thermodynamics heat and mass transfer fluid and particle

dynamics reaction kinetics process control process economics transport and storage of fluids heat transfer equipment psychrometry evaporative cooling and solids drying distillation gas absorption and gas liquid system design liquid liquid extraction operations and equipment adsorption and ion exchange gas solid operations and equipment liquid solid operations and equipment solid solid operations and equipment size reduction and size enlargement handling of bulk solids and packaging of solids and liquids alternative separation processes and many other topics

in this book the modelling of dynamic chemical engineering processes is presented in a highly understandable way using the unique combination of simplified fundamental theory and direct hands on computer simulation the mathematics is kept to a minimum and yet the nearly 100 examples supplied on wiley vch do illustrate almost every aspect of chemical engineering science each example is described in detail including the model equations they are written in the modern user friendly simulation language berkeley madonna which can be run on both windows pc and power macintosh computers madonna solves models comprising many ordinary differential equations using very simple programming including arrays it is so powerful that the model parameters may be defined as sliders which allow the effect of their change on the model behavior to be seen almost immediately data may be included for curve fitting and sensitivity or multiple runs may be performed the results can be seen simultaneously on multiple graph windows or by using overlays the resultant learning effect of this is tremendous the examples can be varied to fit any real situation and the suggested exercises provide practical guidance the extensive experience of the authors both in university teaching and international courses is reflected in this well balanced presentation which is suitable for the teacher the student the chemist or the engineer this book provides a greater understanding of the formulation and use of mass and energy balances for chemical engineering in a most stimulating manner this book is a third edition which also includes biological environmental and food process examples

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