Unit Operations Of Chemical Engineering 7th Edition

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recently published unit operations of chemical engineering 7th edition continues its lengthy successful tradition of being one of mcgraw hill s oldest texts in the chemical engineering series since 1956 this text has been the most comprehensive of the introductory undergraduate chemical engineering titles available separate chapters are devoted to each of the principle unit operations grouped into four sections fluid mechanics heat transfer mass transfer and equilibrium stages and operations involving particulate solids now in its seventh edition the text still contains its balanced treatment of theory and engineering practice with many practical illustrative examples included almost 30 of the problems have been revised or are new some of which cover modern topics such as food processing and biotechnology other unique topics of this text include diafiltration adsorption and membrane operations

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hardbound although neural and connectionist models have been known for decades their first appearance in chemical engineering was as late as 1988 this book is an attempt to expedite a cautious intake of neural networks into chemical engineering besides core chemical engineering it includes applications in process engineering biochemical engineering and metallurgical engineering of the 27 chapters six cover theoretical issues and the remaining 21 cover applications

reference work for chemical and process engineers newest developments advances achievements and methods in various fields

chemical engineering and chemical process technology is a theme component of encyclopedia of chemical sciences engineering and

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this book addresses the applications of matlab and simulink in the solution of chemical engineering problems by classifying the problems into seven different categories the author organizes this book as follows chapter one solution of a system of linear equations chapter two solution of nonlinear equations chapter three interpolation differentiation and integration chapter four numerical solution of ordinary differential equations chapter five numerical solution of partial differential equations chapter six process optimization chapter seven parameter estimation each chapter is arranged in four major parts in the first part the basic problem patterns that can be solved with matlab are presented the second part describes how to apply mat lab commands to solve the formulated problems in the field of chemical engineering in the third and the fourth parts exercises and summary of matlab instructions are provided respectively the description of the chemical engineering example follows the sequence of problem formulation model analysis matlab program design execution results and discussion in this way learners are first aware of the basic problem patterns and the underlying chemical engineering principles followed by further familiarizing themselves with the relevant matlab instructions and programming skills readers

are encouraged to do exercises to practice their problem solving skills and deepen the fundamental knowledge of chemical engineering and relevant application problems the table of contents is listed below chapter 1 solution of a system of linear equations 1 1 1 properties of linear equation systems and the relevant matlab commands 1 1 2 chemical engineering examples 10 1 3 exercises 43 1 4 summary of the matlab commands related to this chapter 48 chapter 2 solution of nonlinear equations 51 2 1 relevant matlab commands and the simulink solution interface 51 2 2 chemical engineering examples 70 2 3 exercises 103 2 4 summary of matlab commands related to this chapter 122 chapter 3 interpolation differentiation and integration 125 3 1 interpolation commands in matlab 125 3 2 numerical differentiation 131 3 3 numerical integration 153 3 4 chemical engineering examples 157 3 5 exercises 183 3 6 summary of the matlab commands related to this chapter 195 chapter 4 numerical solution of ordinary differential equations 197 4 1 initial value problems for ordinary differential equations 197 4 2 higher order ordinary differential equations 222 4 3 stiff differential equations 227 4 4 differential algebraic equation system 232 4 5 boundary valued ordinary differential equations 236 4 6 chemical engineering examples 254 4 7 exercises 285 4 8 summary of the matlab commands related to this chapter 308 chapter 5 numerical solution of partial differential equations 311 5 1 classifications of pdes 311 5 2 the matlab pde toolbox 316 5 3 chemical engineering examples 341 5 4 exercises 388 5 5 summary of the matlab commands related to this chapter 397 chapter 6 process optimization 399 6 1 the optimization problem and the relevant matlab commands 399 6 2 chemical engineering examples 448 6 3 exercises 481 6 4 summary of the matlab commands related to this chapter 501 chapter 7 parameter estimation 503 7 1 parameter estimation using the least squares method 503 7 2 chemical engineering examples 517 7 3 exercises 549 7 4 summary of the matlab commands related to this chapter 560 references 563 index 569

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