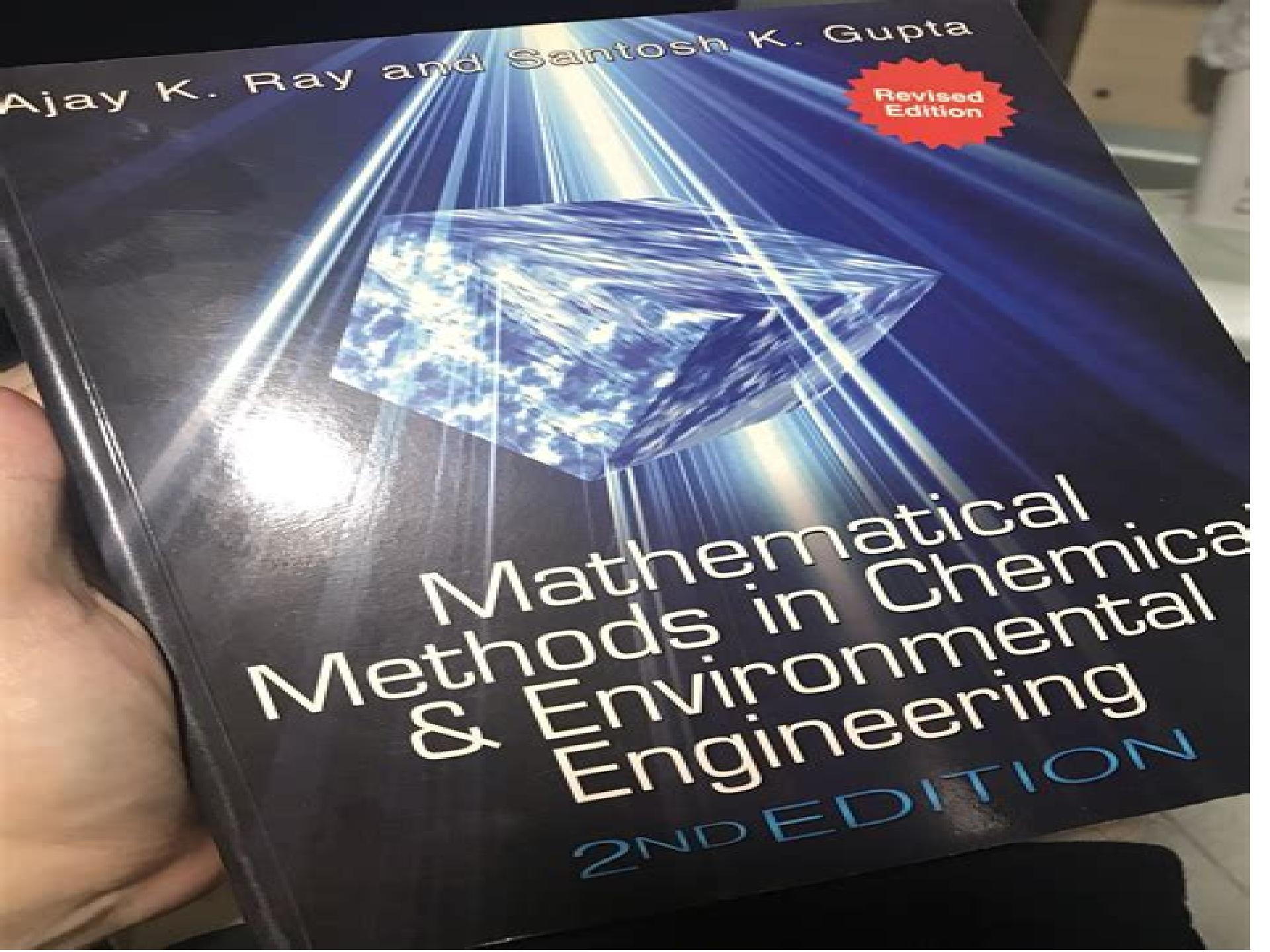


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2ND EDITION

# Mathematical Methods In Chemical And Environmental Engineering

**Christopher C. Johnson,Alecos  
Demetriades,Juan Locutura,Rolf Tore  
Ottesen**

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[Modeling and Analysis of Chemical Engineering Processes](#) K. Balu,K. Padmanabhan,2007 The chemical process industry faces serious problems with regard to new materials and efficient methods of production due to increasing costs of energy stringent environmental regulations and global competition A clear understanding of the processes is required in order to solve these problems One way is through crisp modeling method another is through an optimal operation of the process to improve profitability and efficiency The book is in two parts The first part discusses the methods of modeling chemical engineering processes through well known mathematical methods involving numerical calculations This includes the recent concepts of Fuzzy logic and neural nets The second part describes the efficient optimization methods which are available for the effective application in many chemical processes This involves methods of search for extrema as well as optimization with and without constraint relations Most books on nonlinear programming are of theoretical type and the exact procedures of computation are often obscure But in this book a number of problems have been worked out In addition to this computer programs are included for almost all the topics Due to the intricacy of optimization programs the flow charts and the program in clear BASIC language have been provided so that the reader can understand the mathematical methods The book will be useful for students and practising engineers in the field of chemical engineering biotechnology environmental engineering and applied mathematics

[Cornell University Courses of Study](#) Cornell University,2007 [U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973](#) United States. Environmental Protection Agency. Library Systems Branch,1974 **Which Degree Guide** ,2001 *Introduction to Systems Analysis* Dieter M. Imboden,Stefan Pfenninger,2012-12-14 Systems and their

mathematical description play an important role in all branches of science This book offers an introduction to mathematical modeling techniques It is intended for undergrad students in applied natural science in particular earth and environmental science environmental engineering as well as ecology environmental chemistry chemical engineering agronomy and forestry The focus is on developing the basic methods of modeling Students will learn how to build mathematical models of their own but also how to analyze the properties of existing models The book neither derives mathematical formulae nor does it describe modeling software instead focusing on the fundamental concepts behind mathematical models A formulary in the appendix summarizes the necessary mathematical knowledge To support independent learners numerous examples and problems from various scientific disciplines are provided throughout the book Thanks in no small part to the cartoons by Nikolas St rchler this introduction to the colorful world of modeling is both entertaining and rich in content

### **Catalog**

University of Colorado Boulder,2005 **Mapping the Chemical Environment of Urban Areas** Christopher C. Johnson,Alecos Demetriadis,Juan Locutura,Rolf Tore Ottesen,2011-02-11 This comprehensive text focuses on the increasingly important issues of urban geochemical mapping with key coverage of the distribution and behaviour of chemicals and compounds in the urban environment Clearly structured throughout the first part of the book covers general aspects of urban chemical mapping with an overview of current practice and reviews of different aspects of the component methodologies The second part includes case histories from different urban areas around Europe authored by those national or academic institutions tasked with investigating the chemical environments of their major urban centers

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