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INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING

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BRUCE A. FINLAYSON, PhD, is Rehnberg Professor Emeritus of Chemical Engineering in the Department of Chemical Engineering of the University of Washington. He is also a former president of the American Institute of Chemical Engineers (AIChE). Among his many accolades and honors, Dr. Finlayson is a recipient of the AIChE's prestigious William H. Walker Award and an elected member of the National ...

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problem solving.

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Chemical engineering students and chemical engineers are being asked to solve problems that are increasingly complex, whether the applications are in refineries, fuel cells, microreactors, or pharmaceutical plants.

Introduction to Chemical Engineering Computing

4.0 out of 5 stars Introduction to Chemical Engineering Computing Reviewed in the United States on February 12, 2008 The book covers the various computational tools required by students and chemical engineers and gives a broad spectrum of chemical engineering subjects with the exception of process control.

Introduction To Chemical Engineering Computing: BRUCE A ...

Introduction to chemical engineering computing / Bruce A. Finlayson. - 2nd ed. p. cm. Includes index. ISBN 978-0-470-93295-7 (pbk.) 1. Chemical engineering--Data processing. I. Title. TP184.F56 2012 660.0285-dc23 2011045242 Printed in the United States of America 10 987654321

INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING

Covering a broad range of disciplines and problems within chemical engineering, Introduction to Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem.

Introduction to Chemical Engineering Computing, 2nd ...

Now in its Second Edition, Introduction to Chemical Engineering Computing is based on the author's firsthand teaching experience. As a result, the emphasis is on problem solving. Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering, including: Equations of state

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Chemical engineering students and chemical engineers are being asked to solve problems that are increasingly complex, whether the applications are in refineries, fuel cells, micro-reactors, or pharmaceutical plants. Many years ago, students wrote their own programs, first in the FORTRAN programming language, then in languages like MATLABw.

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An innovative introduction to chemical engineering computing As chemical engineering technology advances, so does the complexity of the problems that arise. The problemsthat chemical engineers and chemical engineering students face today can no longer be answered with programs written on a case-by-case basis.

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Perfect for students and professionals, Introduction to Chemical Engineering Computing gives readers the professional tools they need to solve real-world problems involving: Equations of state Vapor-liquid and chemical reaction equilibria Mass balances with recycle streams Mass transfer equipment Process simulation Chemical reactors Transfer processes in 1D Fluid flow in 2D and 3D Convective diffusion equations in 2D and 3D

Introduction to Chemical Engineering Computing | Bruce A ...

Introduction to Chemical engineering computing introduces new comers to the modern tools in solving basic groups of encountered Chem Engg. problems. The book presents samples of the problems needed in school, and as a novice Chem engineer. It also introduces four of the programs

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