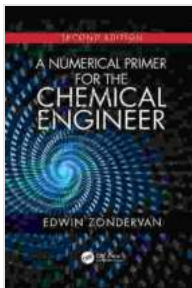


# Numerical Primer for the Chemical Engineer, 2nd Edition

## The Essential Guide to Numerical Methods for Chemical Engineers

Numerical methods are essential for solving many problems in chemical engineering. They allow engineers to simulate complex processes and systems, and to optimize their designs. This book provides a comprehensive to the numerical methods commonly used in chemical engineering.



### A Numerical Primer for the Chemical Engineer, Second Edition by Edwin Zondervan

★★★★★ 5 out of 5

Language : English  
File size : 6332 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 198 pages  
X-Ray for textbooks : Enabled



The book is written in a clear and concise style, with a focus on practical applications. It includes a wide range of example problems and exercises, and is accompanied by a complete online solution manual.

The second edition of this book has been fully revised and updated. It includes new material on finite element methods, computational fluid dynamics, and reaction engineering. It also includes a new chapter on

MATLAB and Python, two popular programming languages used in chemical engineering.

**Topics covered in this book include:**

- Finite difference methods
- Finite element methods
- Computational fluid dynamics
- Heat transfer
- Mass transfer
- Reaction engineering
- Optimization
- Process control
- MATLAB
- Python

**What's new in the second edition:**

- New material on finite element methods
- New material on computational fluid dynamics
- New material on reaction engineering
- New chapter on MATLAB and Python
- Fully revised and updated text

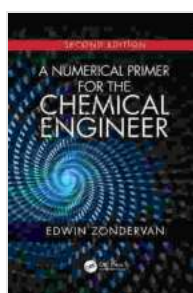
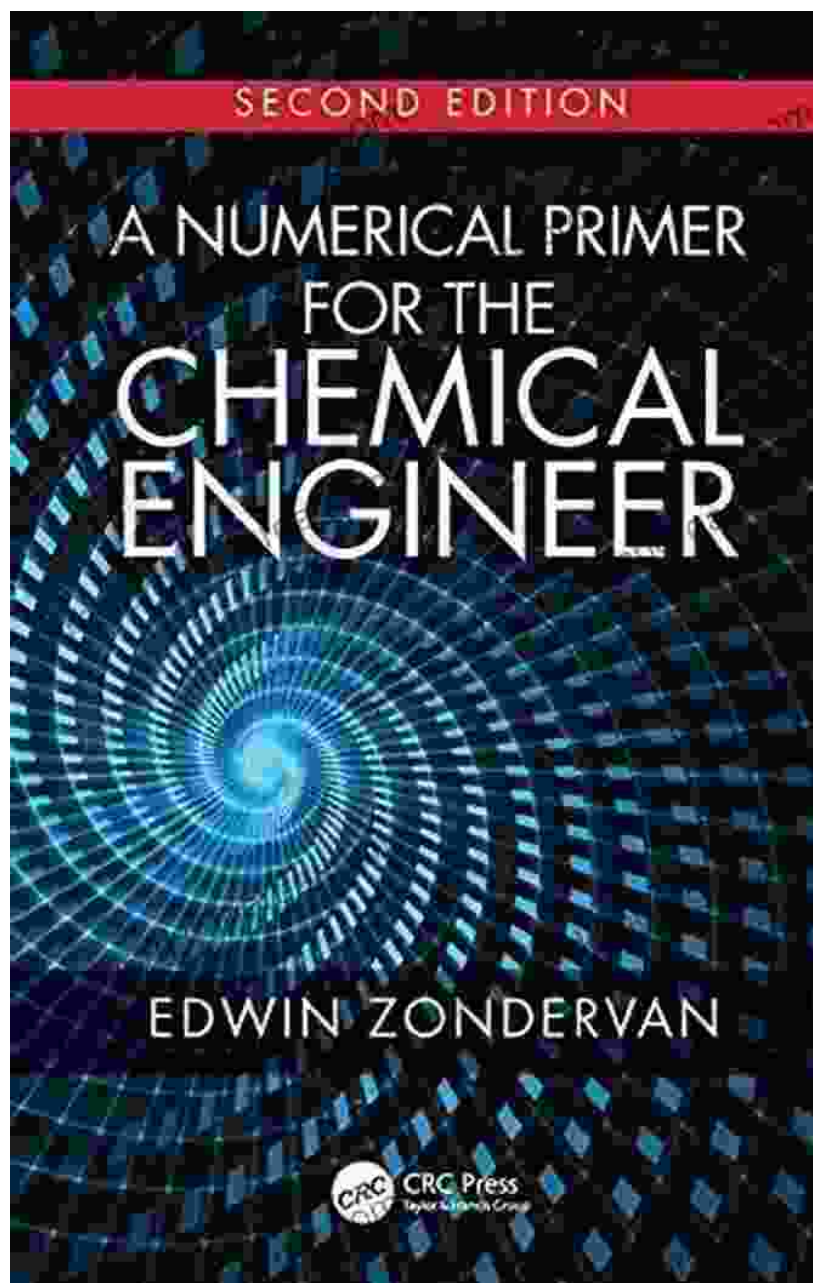
**Who should read this book?**

This book is essential reading for chemical engineering students and professionals. It is also a valuable resource for anyone who wants to learn more about numerical methods.

### **About the author**

Kenneth J. Beer is a professor of chemical engineering at the University of Michigan. He is the author of several other textbooks, including *Process Dynamics and Control* and *Fundamentals of Chemical Engineering Thermodynamics*.

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