Título: Applied Mathematical Methods For Chemical Enginers

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Editorial:

Tema:

Sinopsis

Precio: $1350.00

Año: 2007

Edición: 2ª

ISBN: 9780849397783

An expanded and updated version of its well-respected predecessor, this book uses worked examples to illustrate several mathematical methods that are essential in successfully solving process engineering problems. It first discusses common differential equations in chemical engineering and examples of first-order and linear second-order ordinary differential equations. Later chapters examine Sturm-Liouville problems, Fourier series, integrals, linear partial differential equations (PDEs), and regular perturbation. The author also focuses on examples of PDE applications as they relate to the various conservation laws practiced in chemical engineering. The book concludes with dimensional analysis, the scaling of boundary value problems, selected numerical methods, and available software packages.