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Mathcad for Chemical Engineers (Paperback)

By Hertanto Adidharma, Valery Temyanko

Trafford Publishing, Canada, 2009. Paperback. Book Condition: New. 2nd edition. 249 x 175 mm. Language: English . Brand New Book ***** Print on Demand *****.The second edition of Mathcad for Chemical Engineers demonstrates the use of Mathcad 14 for solving various chemical engineering problems. It is a must-have guide for chemical engineers who would like to use Mathcad as their computational tool. It contains many real-life chemical engineering examples from various areas: material and energy balance, thermodynamics, transport phenomena, kinetics and reactor design, unit operations, engineering economics, and operations management, and thus it can be used as a textbook for chemical engineering education on computing. Unlike other books of similar theme, concise but comprehensive explanations are given in each chapter and step-by-step procedures of solving mathematical problems are given for quick reference. The book has chapters on Mathcad fundamentals, solving a single algebraic equation and a system of algebraic equations, curve fitting, integration and differentiation, solving a single ordinary differential equation (ODE) and a system of ODEs, solving a single partial differential equation (PDE) and a system of PDEs, and programming. The exercise problems at the end of each chapter allow readers to expose themselves to various chemical engineering problems....



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