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Analytical and Numerical Methods for the Problems of Science & Engineering

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Call for Chapters

Analytical and Numerical Methods for the Problems of Science & Engineering

Aims and Scope:

Analytical and numerical methods have various applications in the different disciplines of Engineering and Science to determine the solutions of the problems of communication networks, elasticity, electric circuits, heat transfer, vibration of beams, population models, drug concentration in the plasma, tumor growth, chain reactions, compartment problem and Brownian motion. Analytical and numerical methods are also very effective for finding the solutions of difference equations, ordinary differential equations, partial differential equations, fractional differential equations, integral equations (Volterra integral equation, Fredholm integral equation, and Singular integral equation), integro-differential equations, delay differential equations and partial integro-differential equations. This edited book will focus on the new analytical and numerical methods with their applications to solve the problems of science and engineering

List of Topics:

- Finite Element Method
- Method of Least Squares and Chebyshev Approximations
- Splines and their Applications
- Quadrature formulae and their applications
- Ill Conditioned Problems
- Nonlinear Equations and their Solution Techniques
- Interpolation and Extrapolation Methods
- Initial Value Problems
- Boundary Value Problems
- Fourier Series
- Fourier Transforms
- Discrete Transforms
- Free and Moving Boundary Problems
- Integral Transforms
- Existence Theorems of Integral Transforms
- Integral Transforms of Special Functions
- Duality Relations of Integral Transforms and Their Applications
- Applications Involving Special Functions of Applied Mathematics
- Applications Involving Ordinary Differential Equations
- Applications Involving Partial Differential Equations
- Applications Involving Fractional Differential Equations
- Applications Involving Integral Equations
- Applications Involving Integro-Differential Equations
- Applications Involving Partial Integro-Differential Equations
- Applications Involving the Problems of Medical Field
- Applications Involving the Problems of Science and Engineering
- New Decomposition Methods
- Modular Arithmetic Method for Diophantine Equations

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