## Numerical and Analytical Solutions for Solving Nonlinear Equations in Heat Transfer

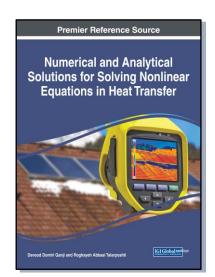
Part of the Advances in Mechatronics and Mechanical Engineering Book Series

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## **Description:**

Engineering applications offer benefits and opportunities across a range of different industries and fields. By developing effective methods of analysis, results and solutions are produced with higher accuracy.

Numerical and Analytical Solutions for Solving Nonlinear Equations in Heat Transfer is an innovative source of academic research on the optimized techniques for analyzing heat transfer equations and the application of these methods across various fields. Highlighting pertinent topics such as the differential transformation method, industrial applications, and the homotopy perturbation method, this book is ideally designed for engineers, researchers, graduate students, professionals, and academics interested in applying new mathematical techniques in engineering sciences.



## **Topics Covered:**

- Adomian Decomposition Method
- Differential Transformation Method
- Homotopy Analysis Method
- Homotopy Perturbation Method
- Industrial Applications
- Variational Iteration Method

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