

# CALL FOR BOOK CHAPTERS

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## Proposed Book Title

# Advances in Mathematical Analysis and Applications: Theoretical Foundations, Computational Methods, and Applied Perspectives

## ABOUT THE BOOK

This book presents recent advances in mathematical analysis and its wide-ranging applications, with emphasis on theoretical foundations, computational methods, and applied perspectives. It aims to provide a comprehensive understanding of modern analytical techniques used in the study of differential equations, integral equations, fractional-order systems, dynamical models, optimization, and related mathematical frameworks. The scope covers qualitative analysis, stability theory, numerical approximation, computational modelling, and real-world applications across science, engineering, biology, finance, and environmental studies. By integrating rigorous theory with computational and application-oriented approaches, the book offers a valuable reference for researchers, academicians, and graduate students working in mathematical analysis and applied mathematics.

## MAJOR THEMES / TOPICS

- 01 Mathematical Foundations of Fractional Dynamical Systems
- 02 Mathematical Modelling of Memory, Hereditary, and Nonlocal Phenomena
- 03 Existence, Uniqueness, and Stability Analysis
- 04 Long-Term Dynamics and Qualitative Behavior
- 05 Numerical Methods and Computational Algorithms
- 06 Approximation Techniques for Nonlinear Mathematical Models
- 07 Optimization and Data-Driven Mathematical Modelling
- 08 Applications in Science, Engineering, Biology, Finance, and Environmental Studies
- 09 Emerging Mathematical Trends, Open Problems, and Future Directions

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## IMPORTANT DATES

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