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Call for Book Chapter Titled "Foundations of Engineering Mathematics"

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- **Author Name & Designation, Phone Number, Email**
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- **Introduction**
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- **References**
- **Pages should be within 10-15**
- **English language**

3. Publication fee:

- **India:** A nominal fee of Rs. 500/- per author, per chapter will be charged.

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  o $40 USD for soft copy (E-book) per chapter.

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5. References:

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Foundations of Engineering Mathematics – Call for Chapter Contributions

Scope of the Book

- ➢ This book provides a comprehensive foundation in essential mathematical concepts tailored for engineering applications.
- ➢ It covers core areas such as calculus, linear algebra, and numerical methods to strengthen analytical thinking.
- ➢ The book integrates applied and computational mathematics to solve real-world engineering problems effectively.
- ➢ Mathematical modelling techniques are introduced to simulate and analyse physical systems.
- ➢ A dedicated focus on probability and statistics equips readers with tools for data analysis and uncertainty quantification.
- ➢ Optimization techniques are explored for efficient problem-solving across various engineering domains.
- ➢ Topics in transforms and their applications offer insight into signal processing and system analysis.
- ➢ A chapter on operations research introduces decision-making strategies for complex industrial problems.
- ➢ The book includes essential mathematics for data science, linking traditional math to modern computing needs.
- ➢ Designed for undergraduate and early graduate students, it serves as a solid bridge between theory and engineering practice.

We invite academicians, researchers, industry professionals, and doctoral scholars to contribute chapters to **Foundations of Engineering Mathematics**. Each chapter should be written in a clear, structured format, combining theoretical concepts with practical applications and examples where appropriate. Case studies, real-world data, and software-based illustrations are encouraged to enhance the chapter's value.

Each chapter can have **up to 4 to 5 authors**. Collaborative works from multiple institutions are welcome.