A modern presentation of integral methods in low-frequency electromagnetics

This book provides state-of-the-art knowledge on integral methods in low-frequency electromagnetics. Blending theory with numerous examples, it introduces key aspects of the integral methods used in engineering as a powerful alternative to PDE-based models. Readers will get complete coverage of:

- Electromagnetic field and its basic characteristics
- Overview of solution methods
- Solution of electromagnetic field by integral expressions
- Integral and integrodifferential methods
- Indirect solution of electromagnetic fields by the boundary element method
- Integral equations in solution of selected coupled problems
- Numerical methods for integral equations

All computations presented in the book are done by means of the authors' own codes and a significant amount of their own results is included. At the end of the monograph, they also discuss novel integral techniques of higher order of accuracy, which are representative of the future of this rapidly advancing field.

Integral Methods in Low-Frequency Electromagnetics is of immense interest to members of the electrical engineering and applied mathematics communities, ranging from graduate students and PhD candidates to researchers in academia and practitioners in industry.

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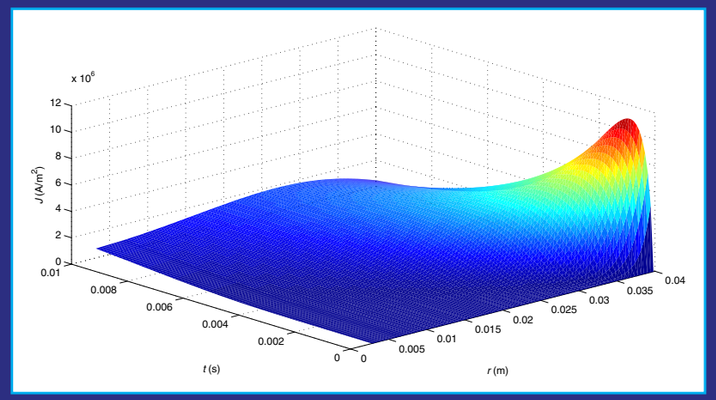

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