



# The Boundary Element Method for Engineers and Scientists, Second Edition: Theory and Applications

*John T. Katsikadelis*

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## The Boundary Element Method for Engineers and Scientists, Second Edition: Theory and Applications John T. Katsikadelis

*The Boundary Element Method for Engineers and Scientists: Theory and Applications, Second Edition*, provides a detailed, practical guide to the principles and use of the boundary element method (BEM), covering the fundamentals of the method with an emphasis on knowledge that is critical to efficient and accurate implementation.

Underlying principles are presented in an accessible way, with clear explanation of the how the BEM equation is formed and numerically solved using only the mathematics and mechanics undergraduate readers will understand. All concepts are illustrated with worked examples and problems, helping to put theory into practice and familiarize the reader with BEM programming through the use of code and programs available on the book's companion website.

- Offers an accessible introduction to boundary element method (BEM) principles, with worked examples and detailed discussion of practical implementation
- Features three new chapters, including coverage of the analog equation method (AEM) and its application to time dependent and non-linear problems
- Includes a companion website with the source code for all computer programs developed in the book

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