

## Boundary Element Methods For Engineers And Scientists An Introductory Course With Advanced Topics

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Over the past decades, the Boundary Element Method has emerged as a ver satile and powerful tool for the solution of engineering problems, presenting in many cases an alternative to the more widely used Finite Element Method.

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This introductory course on the classical Boundary Element Method also contains advanced topics such as the Dual Reciprocity and the Hybrid Boundary Element Methods. The latter methods are extensions that permit the application of BME to anisotropic materials, as well as multi-field problems and fluid-structure interaction.

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Slower to develop have been boundary element methods, based on boundary integral equations. Initial development was largely in the hands of mathematicians, as the underlying mathematics are relatively sophisticated. It was engineers, however, who turned boundary element methods into practically useful and powerful techniques.

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The boundary element method attempts to use the given boundary conditions to fit boundary values into the integral equation, rather than values throughout the space defined by a partial differential equation. Once this is done, in the post-processing stage, the integral equation can then be used again to calculate numerically the solution directly at any desired point in the interior of the solution domain.

### Boundary element method - Wikipedia

In the last couple of decades the Boundary Element Method (BEM) has become a well-established technique that is widely used for solving various problems in electrical engineering and electromagnetics.

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