



Boundary Elements: An Introductory Course

By C.A. Brebbia, J. Dominguez

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This book is the revised edition of the well known boundary elements textbook by Brebbia & Dominguez.

The book was written to provide a simple and up-to-date introduction to the Boundary Element Method. It is based on the authors' long experience teaching boundary elements and is designed to convey the fundamentals of the method in the most effective manner.

Of particular interest is the way in which boundary element concepts are introduced and immediately applied in simple, but useful computer codes. These codes (4 for potential and 2 for elasticity) facilitate the comprehension of boundary elements. The book starts with an introductory chapter explaining why boundary elements are needed and comparing their advantages over finite elements in the solution of many engineering problems. Other chapters deal with basic concepts, potential problems, elastostatics, combination with finite elements, and other topics of interest to engineers.

The book has been designed so that it is suitable for use as a textbook at undergraduate or graduate levels, as well as by the practicing engineer who wants to learn the fundamentals of the technique.

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