

# Fast multipole boundary element method; theory and applications in engineering.

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## TESTO COMPLETO

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AUTHOR: Liu, Yijun.

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REVIEW: For graduate students, researchers, and engineers, Liu (mechanical engineering, U. of Cincinnati) provides a volume on the fast multipole boundary element method (BEM), which has emerged recently as a numerical tool for solving large-scale engineering problems based on the boundary integral equation (BIE) formulations. It describes classical theories in BEM formulations and the recent development of the fast multipole method, and covers potential, elastostatic, Stokes flow, and acoustic wave problems in two and three-dimensional domains, with exercises and computer source codes. It also demonstrates applications in modeling nanocomposite materials, biomaterials, fuel cells, acoustic waves, and image-based simulations. (©2009 Book News, Inc., Portland, OR)

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