

An Introduction to the Theory of Elasticity (Dover Books on Physics)

By R. J. Atkin, N. Fox


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Thanks to intense research activity in the field of continuum mechanics, the teaching of subjects such as elasticity theory has attained a high degree of clarity and simplicity. This introductory volume offers upper-level undergraduates a perspective based on modern developments that also takes into account the limited mathematical tools they are likely to have at their disposal. It also places special emphasis on areas that students often find difficult upon first encounter. *An Introduction to the Theory of Elasticity* provides an accessible guide to the subject in a form that will instill a firm foundation for more advanced study. The topics covered include a general discussion of deformation and stress, the derivation of the equations of finite elasticity with some exact solutions, and the formulation of infinitesimal elasticity with application to some two- and three-dimensional static problems and elastic waves. Answers to examples appear at the end of the book.

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