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During this period, elasticity applications were directed at anisotropic materials for applications to composites. Most recently, elasticity has been used in micromechanical modeling of materials with internal defects or heterogeneity. The rebirth of modern

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Understanding. Over the years the author has given much thought on what should be taught to students in this field and what educational outcomes would be expected.

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Such applications include general stress analysis, contact stresses, thermal stress analysis, fracture mechanics, and fatigue. Materials engineering uses elasticity to determine the stress fields in

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crystalline solids,
around dislocations,
and in materials with
microstructure.

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have seen growing
interest in numerical
simulation of media
with internal structure,
and have evidence of
the potential of the
new methods. The

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Theory was especially clear in problems relating to multiple grains, blocks, cracks, inclusions and voids. This prompted me, when preparing the English edition, to place more emphasis on such topics. The other change was inspired by Professor Graham Gladwell. It

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was he who urged me to abridge the chain of formulae and to increase the number of examples. Now the reader will find more examples showing the potential and advantages of the analysis. The first chapter of the book contains a simple exposition of the theory of real variable

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potentials, including the hypersingular potential and the hypersingular equations. This makes up for the absence of such exposition in current textbooks, and reveals important links between the real variable BIE and the complex variable counterparts. The

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Chapter may also help readers who are learning or lecturing on the boundary element method.

Since the first edition of this book was published, there have been major improvements in symbolic mathematical languages such as

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Maple and
Mathematica and this
has opened up the
possibility of solving
considerably more
complex and hence
interesting and
realistic elasticity
problems as
classroom examples.
It also enables the
student to focus on
the formulation of the
problem (e. g. the

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appropriate governing equations and boundary conditions) rather than on the algebraic manipulations, with a consequent improvement in insight into the subject and in motivation. During the past 10 years I have developed files in Maple and

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