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Reciprocity in Elastodynamics (Cambridge Monographs on ...

This book discusses current and novel uses of reciprocity relations for the determination of elastodynamic fields. The

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author, who is internationally distinguished for his contributions to theoretical and applied mechanics, presents a novel method to solve for wave fields, shedding new light on the use of reciprocity relations for dynamic fields in an elastic body.

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This book discusses current and novel uses of reciprocity relations for the determination of elastodynamic fields. The author, who is internationally distinguished for his contributions to theoretical and applied mechanics, presents a novel method to solve for wave fields, shedding new light on the use of reciprocity relations for dynamic fields in an elastic body.

Reciprocity in Elastodynamics - Cambridge Monographs on ...

Based on the reciprocity of elastodynamics and linear piezoelectricity, theoretical interpretation is conducted for the

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main and residual side bands of the reconstructed signal in the time domain.

J.D. Achenbach, Reciprocity in Elastodynamics, Cambridge ...

The reciprocity theorem has been used for over 100 years to establish interesting and useful relationships and to formulate problems. Internationally distinguished for his contributions to mechanics, Jan Achenbach presents a novel method of solving wave fields.

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Book Review Reciprocity in Elastodynamics by Jan D. Achenbach, Cambridge Monographs on Mechanics, Cambridge University Press, 2003

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"This book presents a discussion of current and novel uses of reciprocity relations for the determination of elastodynamic fields. The author presents a novel solution method for wave fields by reciprocity of the actual field with a so-called virtual wave, shedding new light on the use of reciprocity relations for dynamic fields in an elastic body."

Reciprocity in elastodynamics (Book, 2003)
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The first reciprocity relation specifically for acoustics was stated by von Helmholtz (1859). This relation caught the attention of and was elaborated by Rayleigh (1873) and Lamb (1888). Rayleigh (1873) briefly discussed the reciprocal theorem for acoustics in his paper "Some general theorems relating to vibrations."

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Book Review: Jan D. Achenbach, Reciprocity in ...

Reciprocity in Elastodynamics. Jan D. Achenbach. Cambridge University Press, 40 W. 20th St., New York, NY 10011-4211. 2004. 255 pages. \$70. ISBN 0-521-81734-X. The reciprocity theorem has been used for more than a century to establish

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interesting and useful relations between different loading states of a body, according to the publisher.

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The law of reciprocity in acoustics and elastodynamics codifies a relation of symmetry between action and reaction in fluids and solids. In its simplest form, it states that the frequency-response...

Nonreciprocity in acoustic and elastic materials | Nature

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Reciprocity theorems in elasticity theory were discovered in the second half of the 19th century. For elastodynamics they provide interesting relations between two elastodynamic states, say states A and B . This paper will primarily review applications of reciprocity relations for time-harmonic elastodynamic states.

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To my knowledge, the topic of reciprocity in elastodynamics has not been discussed in a comprehensive manner in the technical literature. It is hoped that this book will fill that void. Various forms of the reciprocity theorem are presented, with an emphasis on those for time-harmonic fields, together with numerous applications, general and specific, old and new.

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Reciprocity in Elastodynamics | Linear Elasticity ...

J. D. Achenbach, Reciprocity in Elastodynamics, Cambridge Monographs on Mechanics (Cambridge University Press, Cambridge, 2004), X+255 pp. , Google Scholar Crossref; 7. V. Maupin, " The radiation modes of a vertically varying half-space: A new representation of the complete Green's function in terms of modes," Geophys. J.

Calculation of amplitudes of acoustic normal modes from ...

The reciprocity theorem is a fundamental theorem of the Theory of Elasticity (Betti 1872, Rayleigh 1873). The theorem connects the body forces, the surface tractions and the displacements of two elastodynamic states in a domain of an elastic body, by a volume integral and a surface integral.

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