

Discontinuities in Acoustic Wave-guide and the Reciprocity

$$A_{sm}^{(1)} T_{nn}^{(12)} = A_{sn}^{(2)} T_{nm}^{(21)}$$

$$A_{sm}^{(1)} R_{nn}^{(1)} = A_{sn}^{(1)} R_{nm}^{(1)}$$

Nick V. Solokhin

Discontinuities In Acoustic Wave Guide And The Reciprocity

**Institute of Electrical and Electronics
Engineers**



Discontinuities In Acoustic Wave Guide And The Reciprocity:

Discontinuities in Acoustic Wave-guide and the Reciprocity Nick V. Solokhin, 2007 This work includes numerical analysis of discontinuities in acoustic wave guide and their properties in multi mode case It was suggested new version of reciprocity relations between wave guide modes between incident and transmitted and between incident and reflected modes This new version of reciprocity relations transforms into old one in a case of single traveling mode **The Journal of the Acoustical Society of America** Acoustical Society of America, 2007 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1997 Issues for 1973 cover the entire IEEE technical literature Handbook of Acoustics Malcolm J. Crocker, 1998-03-09 Acoustical engineers researchers architects and designers need a comprehensive single volume reference that provides quick and convenient access to important information answers and questions on a broad spectrum of topics and helps solve the toughest problems in acoustical design and engineering The Handbook of Acoustics meets that need It offers concise coverage of the science and engineering of acoustics and vibration In more than 100 clearly written chapters experts from around the world share their knowledge and expertise in topics ranging from basic aerodynamics and jet noise to acoustical signal processing and from the interaction of fluid motion and sound to infrasound ultrasonics and quantum acoustics Topics covered include General linear acoustics Nonlinear acoustics and cavitation Aeroacoustics and atmospheric sound Mechanical vibrations and shock Statistical methods in acoustics Architectural acoustics Physiological acoustics Underwater sound Ultrasonics quantum acoustics and physical aspects of sound Noise its effects and control Acoustical signal processing Psychological acoustics Speech communication Music and musical acoustics Acoustical measurements and instrumentation Transducers The Handbook of Acoustics belongs on the reference shelf of every engineer architect research scientist or designer with a professional interest in the propagation control transmission and effects of sound Scientific and Technical Aerospace Reports , 1981 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Inverse Problems in Wave Propagation** Guy Chavent, George Papanicolaou, Paul Sacks, William Symes, 2012-12-06 Inverse problems in wave propagation concern extraction of information about distant structural features from the measurements of scattered waves Tasks of this nature arise in geophysics ocean acoustics civil and environmental engineering ultrasonic nondestructive testing biomedical ultrasonics radar astrophysics and other areas of science and technology The papers in this volume represent most of these scientific and technical topics together with fundamental mathematical investigations of the relation between waves and scatterers **Science Abstracts** , 1995 *Effective Computational Methods for Wave Propagation* Nikolaos A. Kampanis, Vassilios Dougalis, John A. Ekaterinaris, 2008-02-25 Due to the increase in computational power and new discoveries in propagation phenomena for linear and nonlinear waves the area of computational wave propagation has become more significant in recent years

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