

Springer Series on

Wave Phenomena

S. M. Biryukov Yu. V. Gulyaev
V. V. Krylov V. P. Plessky

Surface Acoustic Waves in Inhomogeneous Media



Springer

Surface Acoustic Wave In Inhomogenous Media

Judd E. Hollander

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Surface Acoustic Waves in Inhomogeneous Media Sergey V. Biryukov, Yuri V. Gulyaev, Victor V. Krylov, Victor P. Plessky, 2012-12-06 Surface Acoustic Waves in Inhomogeneous Media covers almost all important problems of the interaction of different types of surface acoustic waves with surface inhomogeneities. The problems of surface acoustic wave interaction with periodic topographic gratings widely used in filters and resonators are under careful consideration. The most important results of surface wave scattering by local defects such as grooves random roughness elastic wedges are given. Different theoretical approaches and practical rules for solving the surface wave problems are presented

Nonequilibrium

Phonon Dynamics Walter E. Bron, 2013-11-11 Phonons are always present in the solid state even at an absolute temperature of 0 K where zero point vibrations still abound. Moreover phonons interact with all other excitations of the solid state and thereby influence most of its properties. Historically experimental information on phonon transport came from measurements of thermal conductivity. Over the past two decades much more and much more detailed information on phonon transport and on many of the inherent phonon interaction processes have come to light from experiments which use nonequilibrium phonons to study their dynamics. The resultant research field has most recently blossomed with the development of ever more sophisticated experimental and theoretical methods which can be applied to it. In fact the field is moving so rapidly that new members of the research community have difficulties in keeping up to date. This NATO Advanced Study Institute ASI was organized with the objective of overcoming the information barrier between those expert in the field and those who are new to it. Thus it was decided to i) organize a set of tutorially based lectures covering most of the important facets in the field and ii) to produce an Institute proceedings which would serve both as the first general textbook as well as a valuable reference book for this field of knowledge

Physics and Mechanics of New Materials and Their Applications

Ivan A. Parinov, Shun-Hsyung Chang, Yun-Hae Kim, Nao-Aki Noda, 2021-08-10 This book presents selected peer reviewed contributions from the 2020 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2020 26-29 March 2021 Kitakyushu Japan focusing on processing techniques physics mechanics and applications of advanced materials. The book describes a broad spectrum of promising nanostructures crystal structures materials and composites with unique properties. It presents nanotechnological design approaches environmental friendly processing techniques and physicochemical as well as mechanical studies of advanced materials. The selected contributions describe recent progress in computational materials science methods and algorithms in particular finite element and finite difference modelling applied to various technological mechanical and physical problems. The presented results are important for ongoing efforts concerning the theory modelling and testing of advanced materials. Other results are devoted to promising devices with higher accuracy increased longevity and greater potential to work effectively under critical temperatures high pressure and in aggressive environments

Scientific and Technical Aerospace Reports

Caustics, Catastrophes

and Wave Fields ІІУіЛриi Aleksandrovich Kravtisišlov, ІІУіЛриi Il'ich Orlov, 1999 The second edition of Histological Typing of Salivary Gland Tumours is more extensive and detailed than the previous edition New technical methods have increased our understanding of many tumours The various types of carcinomas are categorized separately and the inclusion of the TNM Classification of salivary gland tumours and the more detailed description of the lesions will contribute to a better understanding

Physical Acoustics Warren Perry Mason, Robert N. Thurston, 1999

2015 ICU International

Congress on Ultrasonics Abstract Book, Metz, France, Declercq N. F. editor (2015) Nico F. Declercq, 2015-05-11 The compilation of this book has been made possible with the help of Didier Cassereau Bertrand Dubus and John Fritsch with support from the Scientific and Technical Committee of 2015 ICU

Soviet Physics, 1991

Adhesive Joints K.L.

Mittal, 2012-12-06 This volume documents the proceedings of the International Symposium on Adhesive Joints Formation Characteristics and Testing held under the auspices of the Division of Polymer Materials Science and Engineering of the American Chemical Society in Kansas City MO September 12 17 1982 There is a myriad of applications ranging from aerospace to surgery where adhesives are used to join different materials and concomitantly the understanding of the behavior of adhesive joints becomes very important There are many factors which can influence the behavior of adhesive joints e.g. substrate preparation in terfacial aspects joint design mode of stress external environment etc and in order to understand the joint behavior in a holistic manner one must take due cognizance of all these germane factors So this symposium was planned to address not only how to make acceptable bonds but their characterization durability and testing were also accorded due consideration

1998 IEEE Ultrasonics Symposium IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, 1998 Advances in communications circuits applications and SAW component design and manufacturing are described Acoustic optics applications in medical imaging research diagnosis and treatment protocols are reviewed Advances in nondestructive testing and ultrasonic manufacturing processes are discussed

Archives of Acoustics Quarterly, 2010

Acoustical Physics, 1999

The Journal of the Acoustical Society of America

Acoustical Society of America, 2003

R & D Abstracts Technology Reports Centre (Great Britain), 1979

Physics Briefs

, 1990

Soviet Journal of Plasma Physics, 1988

U.S. Government Research & Development Reports, 1970

Soviet Physics, Solid State, 1993

Journal of Applied Mechanics, 1983

References to Contemporary Papers

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