

Springer Series on

Wave Phenomena

S.V. Biryukov Yu.V. Gulyaev
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Surface Acoustic Waves in Inhomogeneous Media



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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 **Advances in Surface Acoustic Wave Technology, Systems and Applications** Clemens C. W. Ruppel, Tor A. Fjeldly, 2001 Surface acoustic wave SAW devices are recognized for their versatility and efficiency in controlling and processing electrical signals This has resulted in a multitude of device concepts for a wide range of signal processing functions such as delay lines filters resonators pulse compressors convolvers and many more As SAW technology has found its way into mass market products such as TV receivers pagers keyless entry systems and cellular phones the production volume has risen to millions of devices produced every day At the other end of the scale there are specialized high performance signal processing SAW devices for satellite communication and military applications such as radar and electronic warfare This volume together with Volume 2 presents an overview of recent advances in SAW technology systems and applications by some of the foremost researchers in this exciting field **Advances In Surface Acoustic Wave Technology, Systems & Applications, Vol 2** Tor A Fjeldly, Clemens C W Ruppel, Alireza Baghai-wadji, 2001-01-31 Surface acoustic wave SAW devices are recognized for their versatility and efficiency in controlling and processing electrical signals This has resulted in a multitude of device concepts for a wide range of signal processing functions such as delay lines filters resonators pulse compressors convolvers and many more As SAW technology has found its way into mass market products such as TV receivers pagers keyless entry systems and cellular phones the production volume has risen to millions of devices produced every day At the other end of the scale these are specialized high performance signal processing SAW devices for satellite communication and military applications such as radar and electronic warfare This volume together with Volume 1 presents an overview of recent advances in SAW technology systems and applications by some of the foremost researchers in this exciting field 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

Variational Views in Mechanics Paolo Maria Mariano, 2022-02-08 This volume provides a timely survey of interactions between the calculus of variations and theoretical and applied mechanics Chapters have been significantly expanded since preliminary versions appeared in a special issue of the Journal of Optimization Theory and Applications 184 1 2020 on Calculus of Variations in Mechanics and Related Fields The variety of topics covered offers researchers an overview of problems in mechanics that can be analyzed with variational techniques making this a valuable reference for researchers in the field It also presents ideas for possible future areas of research showing how the mastery of these foundational mathematical techniques can be used for many exciting applications Specific topics covered include Topology optimization Identification of material properties Optimal control Plastic flows Gradient polyconvexity Obstacle problems Quasi monotonicity Variational Views in Mechanics will appeal to researchers in mathematics solid states physics and mechanical civil and materials engineering

Modern Radio Signals Filtering Devices Methods, Technologies, & Structures Grigory M. ARISTARKHOV, Yuri V. GULYAEV, Valery F. DMITRIEV, Vyacheslav V. KOMAROV, Valery P. MESHCHANOV, Kirill V. ZAICHENKO, 2024-02-09 This comprehensive book covers spectral analysis theory for radio signals and innovative devices designed for filtering electromagnetic waves across diverse frequency ranges The book features 14 chapters that explain the working of devices utilizing surface and bulk acoustic waves The chapters provide insights into acousto optical and acousto electronic Fourier processors design principles description methods and characteristics The inclusion of algorithms for multi channel frequency discriminators enhances the precision of radio signal frequency measurements ensuring stability in tracking frequency meters amidst intense interference The book also includes mathematical modeling and experimental studies of waveguide microwave filters and X band multiplexers specifically tailored for non pressurized radio electronic equipment in space communication systems Notably the book introduces readers to a compelling alternative to conventional filters 2 D periodic structures in the form of thin perforated metal meshes that offer compact solutions for millimeter and sub millimeter wave systems A significant portion of the book is dedicated to the development of highly selective microstrip filters incorporating complex topological structures with limited resonators and numerous couplings This approach allows for the formation of numerous attenuation poles at finite frequencies facilitating the achievement of high electrical parameters and compact filter sizes Engineers and scientists specializing in communication systems design and analog Fourier processors will find a wealth of well established and original solutions

within this book 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 **Acoustic Waves** Marco G. Beghi, 2011-11-14 The concept of acoustic wave is a pervasive one which emerges in any type of medium from solids to plasmas at length and time scales ranging from sub micrometric layers in microdevices to seismic waves in the Sun's interior This book presents several aspects of the active research ongoing in this field Theoretical efforts are leading to a deeper understanding of phenomena also in complicated environments like the solar surface boundary Acoustic waves are a flexible probe to investigate the properties of very different systems from thin inorganic layers to ripening cheese to biological systems Acoustic waves are also a tool to manipulate matter from the delicate evaporation of biomolecules to be analysed to the phase transitions induced by intense shock waves And a whole class of widespread microdevices including filters and sensors is based on the behaviour of acoustic waves propagating in thin layers The search for better performances is driving to new materials for these devices and to more refined tools for their analysis Ground Dynamics and Man-made Processes Bryan O. Skipp, 1998 Conference was initiated by the Ground Board of the Institution of Civil Engineers London and was held on 20 November 1997 London Amplification of Nonlinear Strain Waves in Solids Alexey V. Porubov, 2003 This book treats two problems simultaneously sequential analytical consideration of nonlinear strain wave amplification and selection in wave guides and in a medium demonstration of the use of even particular analytical solutions to nonintegrable equations in a design of numerical simulation of unsteady nonlinear wave processes The text includes numerous detailed examples of the strain wave amplification and selection caused by the influence of an external medium microstructure moving point defects and thermal phenomena The main features of the book are 1 nonlinear models of the strain wave evolution in a rod subjected by various dissipative active factors 2 an analytical-numerical approach for solutions to the governing nonlinear partial differential equations with dispersion and dissipation This book is essential for introducing readers in mechanics mechanical engineering and applied mathematics to the concept

of long nonlinear strain wave in one dimensional wave guides It is also suitable for self study by professionals in all areas of nonlinear physics

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