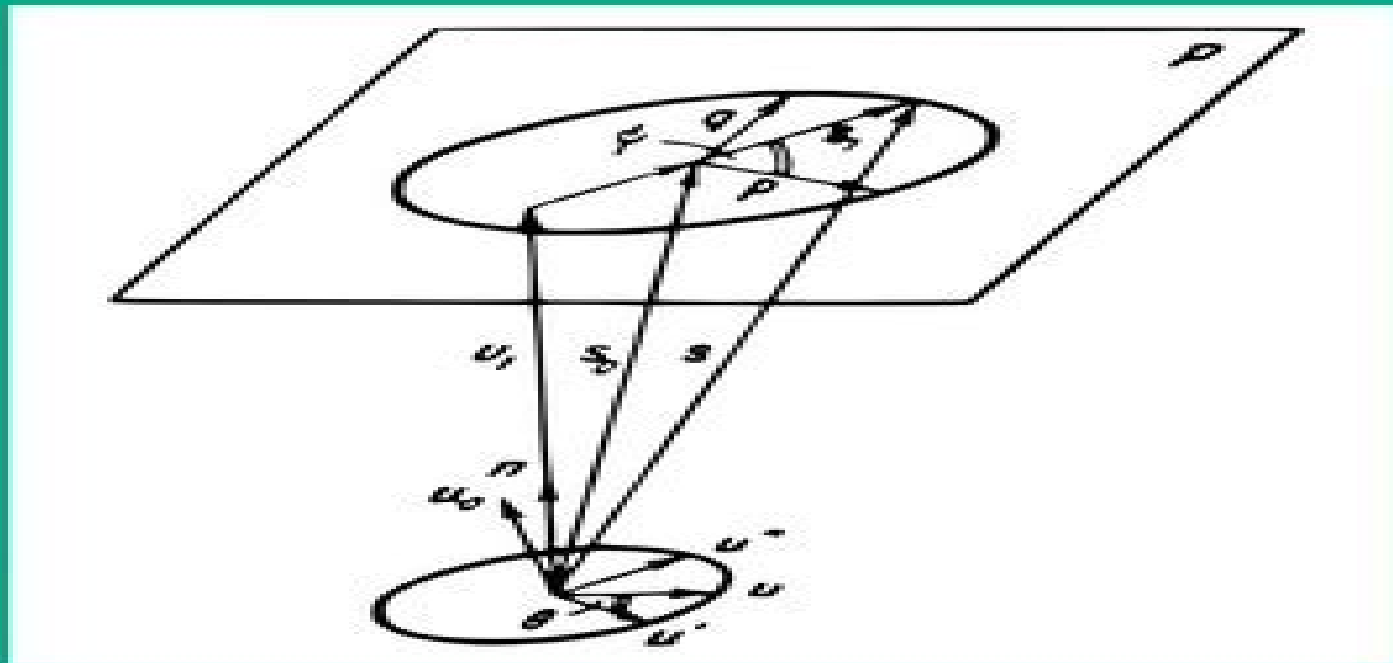


Theory of Elastic Waves in Crystals



Theory Of Elastic Waves In Crystals

Tianyou Fan



Theory Of Elastic Waves In Crystals:

Theory of Elastic Waves in Crystals Fedor I. Fedorov, 2013-04-17 The translation into English of Academician Fedorov's excellent treatise on elastic wave propagation in solids has come at an opportune time His systematic exposition of all aspects of this field is most lucid and straightforward The author has gone to considerable pains to develop in his mathematical background a consistent tensor framework which acts as a unifying motif through out the various aspects of the subject In many respects his approach will appear quite novel as his treatment introduces several concepts and parameters previously unfamiliar to the literature of the West Extensive tables in the final chapters illustrate the application of these ideas to the existing body of experimental data The book is both extensive and comprehensive in all phases of the subject Workers in the fields of ultrasonic propagation and elastic properties will find this treatise of great interest and direct concern H B Huntington Rensselaer Polytechnic Institute Troy New York November 1967 v Preface to the American Edition In preparing this edition I have corrected various misprints and errors appearing in the Russian edition but I have also incorporated some substantial changes and additions the latter representing some results I and my colleagues have recently obtained and published in Russian journals For example in section 32 I have added a general derivation of the equation for the section of the wave surface by a symmetry plane for cubic hexagonal tetragonal and orthorhombic crystals

Theory of elastic waves in crystals, with a foreword by H.B. Huntington, by Fedor Ivanovich Fedorov, The Physics of Phonons G.P. Srivastava, 1990-01-01 There have been few books devoted to the study of phonons a major area of condensed matter physics The Physics of Phonons is a comprehensive theoretical discussion of the most important topics including some topics not previously presented in book form Although primarily theoretical in approach the author refers to experimental results wherever possible ensuring an ideal book for both experimental and theoretical researchers The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation including the traditional phenomenological approach and the more recent ab initio approach detailed for the first time in this book A discussion of anharmonicity is followed by the theory of lattice thermal conductivity presented at a level far beyond that available in any other book The chapter on phonon interactions is likewise more comprehensive than any similar discussion elsewhere The sections on phonons in superlattices impure and mixed crystals quasicrystals phonon spectroscopy Kapitza resistance and quantum evaporation also contain material appearing in book form for the first time The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study With its unprecedented wide coverage of the field The Physics of Phonons will be indispensable to all postgraduates advanced undergraduates and researchers working on condensed matter physics

Theory of Elastic Waves Peijun Wei, 2022-11-30 This book highlights a systematic introduction to the basic theory of elastic wave propagation in complex media The theory of elastic waves is widely used in fields such as geophysical exploration seismic survey medical ultrasound imaging

nondestructive testing of materials and structures phononic crystals metamaterials and structure health monitoring To help readers develop a systematic grasp of the basic theory and thus its applications the book elaborates on the theory of elastic wave propagation in isotropic solid media covering phenomena in infinite media interfaces layered structure with finite thickness Rayleigh wave and Love wave propagating along the surface of semi infinite solid and covering layer and the guided waves and leaky waves in flat plates and in cylindrical rods The propagation patterns and features of guided waves in cylindrical shells and spherical shells are also introduced The author wrote the book based on a decade of teaching experience of a graduate course of the same name and two decades of research on the theory and applications The book is a valuable reference for students researchers and professionals who expect an understandable and comprehensive discussion of the theory analytical methods and related research results

Theory of Elasticity L D Landau, L. P. Pitaevskii, A. M. Kosevich, E.M. Lifshitz, 2012-12-02 A comprehensive textbook covering not only the ordinary theory of the deformation of solids but also some topics not usually found in textbooks on the subject such as thermal conduction and viscosity in solids

Mathematical Theory of Elasticity of Quasicrystals and Its Applications Tianyou Fan, 2011-05-25 This interdisciplinary work covering the continuum mechanics of novel materials condensed matter physics and partial differential equations discusses the mathematical theory of elasticity of quasicrystals a new condensed matter and its applications by setting up new partial differential equations of higher order and their solutions under complicated boundary value and initial value conditions The new theories developed here dramatically simplify the solving of complicated elasticity equation systems Large numbers of complicated equations involving elasticity are reduced to a single or a few partial differential equations of higher order Systematical and direct methods of mathematical physics and complex variable functions are developed to solve the equations under appropriate boundary value and initial value conditions and many exact analytical solutions are constructed The dynamic and non linear analysis of deformation and fracture of quasicrystals in this volume presents an innovative approach It gives a clear cut strict and systematic mathematical overview of the field Comprehensive and detailed mathematical derivations guide readers through the work By combining mathematical calculations and experimental data theoretical analysis and practical applications and analytical and numerical studies readers will gain systematic comprehensive and in depth knowledge on continuum mechanics condensed matter physics and applied mathematics

Mathematical Theory of Elasticity of Quasicrystals and Its Applications Tian-You Fan, 2016-09-20 This interdisciplinary work on condensed matter physics the continuum mechanics of novel materials and partial differential equations discusses the mathematical theory of elasticity and hydrodynamics of quasicrystals as well as its applications By establishing new partial differential equations of higher order and their solutions under complicated boundary value and initial value conditions the theories developed here dramatically simplify the solution of complex elasticity problems Comprehensive and detailed mathematical derivations guide readers through the work By combining theoretical analysis and

experimental data mathematical studies and practical applications readers will gain a systematic comprehensive and in depth understanding of condensed matter physics new continuum mechanics and applied mathematics This new edition covers the latest developments in quasicrystal studies In particular it pays special attention to the hydrodynamics soft matter quasicrystals and the Poisson bracket method and its application in deriving hydrodynamic equations These new sections make the book an even more useful and comprehensive reference guide for researchers working in Condensed Matter Physics Chemistry and Materials Science

Nonlinear Elastic Waves in Materials Jeremiah J. Rushchitsky, 2014-04-23 The main goal of the book is a coherent treatment of the theory of propagation in materials of nonlinearly elastic waves of displacements which corresponds to one modern line of development of the nonlinear theory of elastic waves The book is divided on five basic parts the necessary information on waves and materials the necessary information on nonlinear theory of elasticity and elastic materials analysis of one dimensional nonlinear elastic waves of displacement longitudinal vertically and horizontally polarized transverse plane nonlinear elastic waves of displacement analysis of one dimensional nonlinear elastic waves of displacement cylindrical and torsional nonlinear elastic waves of displacement analysis of two dimensional nonlinear elastic waves of displacement Rayleigh and Love nonlinear elastic surface waves The book is addressed first of all to people working in solid mechanics from the students at an advanced undergraduate and graduate level to the scientists professionally interesting in waves But mechanics is understood in the broad sense when it includes mechanical and other engineering material science applied mathematics and physics and so forth The genesis of this book can be found in author's years of research and teaching while a head of department at SP Timoshenko Institute of Mechanics National Academy of Sciences of Ukraine a member of Center for Micro and Nanomechanics at Engineering School of University of Aberdeen Scotland and a professor at Physical Mathematical Faculty of National Technical University of Ukraine KPI The book comprises 11 chapters Each chapter is complemented by exercises which can be used for the next development of the theory of nonlinear waves

Nonlinear Waves in Elastic Crystals Gérard A. Maugin, 1999 The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects combine or compete with each other Physical and mathematical models are discussed and computational aspects are also included Different models are considered on discrete as well as continuum scales applying heat electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics In this way the student is introduced to the important equations of nonlinear science that describe shock waves solitons and chaos and also the non exactly integrable systems or partial differential equations A large number of problems and examples are included many taken from recent research and involving both one dimensional and two dimensional problems as well as some coupled degrees of freedom

Magnetoelastic Waves Gevorg Baghdasaryan, Zaven

Danoyan,2017-09-28 This book highlights key methods for the mathematical modeling and solution of nonstationary dynamic problems in the theory of magnetoelasticity It also reveals the richness of physical effects caused by the interaction of electromagnetic and mechanical phenomena in both conducting non ferromagnetic and dielectric magnetically active deformable bodies The studies are limited to elastic bodies considering small deformations The book consists of two parts the first of which derives the system of equations for describing magnetoelasticity the surface conditions and equations describing the perturbations behavior of non ferromagnetic conducting media interacting with external magnetic fields These equations are based on the main nonlinear equations and relations of mechanics and quasistatic electrodynamics of continuous media On this basis the book puts forward a number of qualitative and quantitative results solving selected problems of magnetoelastic wave propagation In turn the second part considers surface waves in magnetostrictive and piezomagnetic media It obtains the system of equations surface conditions and state equations describing the perturbations behavior in magnetoactive ferromagnetic dielectric media interacting with external magnetic fields Lastly the book studies the excitations and propagation of new types of surface waves and oscillations in these media conditioned by the magnetostrictive properties of the respective medium and its interaction with an external magnetic field

Theory Of Elastic Waves In Crystals Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Theory Of Elastic Waves In Crystals**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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