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Fundamentals of Waves and Oscillations. Ingard, K. U. Abstract. Preface; Part I. Oscillations: 1. Review of elementary concepts and examples; 2. The complex amplitude; 3. Forced oscillations and frequency response; 4. Free oscillations and impulse response; 5.

This textbook, addressed primarily to physics and engineering students, is a comprehensive introduction to waves and oscillations, both mechanical and electromagnetic. Elementary aspects of matter waves are also considered. One objective is to illustrate the physics involved in the description and analysis of waves through a wide range of examples, from purely mechanical and purely electromagnetic to coupled electro-mechanical waves, such as plasma oscillations and hydromagnetic waves. In this process, the use of complex amplitudes in the mathematical analysis is illuminated and encouraged to make tractable a wider range of problems than is ordinarily considered in an introductory text. General concepts and wave phenomena such as wave energy and momentum, interference, diffraction, scattering, dispersion, and the Doppler effect are illustrated by numerous examples and demonstrations. Among the special

topics covered are waves on periodic structures and in solids, wave guides, a detailed analysis of light scattering from thermal fluctuations of a liquid surface, and feedback instabilities. Important ideas and equations are displayed in boxes for easy reference, and there are numerous examples throughout the text and exercises at the end of every chapter. Undergraduates and graduates should find this an indispensable account of this central subject in science and engineering.

This is a complete introduction to the theory of waves and oscillations as encountered by physics and engineering students. It discusses both the mathematical theory and the physics of phenomena such as waves in fluids, electromagnetic waves, and discrete coupled oscillators in mechanics and electronics. The author gives a description of the mathematics of complex amplitudes and introduces forced and free oscillations and normal modes of resonance. Chapters cover wave guides, barrier penetration, and electromagnetic transmission. One section, devoted solely to surface waves, includes a discussion on light scattering and the determination of surface tension and viscosity, plasma oscillations, and feedback oscillations. Ideas and equations are displayed for easy reference, and sets of exercises follow each chapter.

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This text is well-designed with respect to the exposition from the preliminary to the more advanced and the applications interwoven throughout. It provides the essential foundations for the theory as well as the basic facts relating to almost periodicity. In six structured and self-contained chapters, the author unifies the treatment of various classes of almost periodic functions, while uniquely addressing oscillations and waves in the almost periodic case. This is the first text to present the latest results in almost periodic oscillations and waves. The presentation level and inclusion of several clearly presented proofs make this work ideal for graduate students in engineering and science. The concept of almost periodicity is widely applicable to continuum mechanics, electromagnetic theory, plasma physics, dynamical systems, and astronomy, which makes the book a useful tool for mathematicians and physicists.

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.

A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas,

equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students

This lively textbook differs from others on the subject by its usefulness as a conceptual and mathematical preparation for the study of quantum mechanics, by its emphasis on a variety of learning tools aimed at fostering the student's self-awareness of learning, and by its frequent connections to current research.

This open access textbook, like Rayleigh ' s classic Theory of Sound, focuses on experiments and on approximation techniques rather than mathematical rigor. The second edition has benefited from comments and corrections provided by many acousticians, in particular those who have used the first edition in undergraduate and graduate courses. For example, phasor notation has been added to clearly distinguish complex variables, and there is a new section on radiation from an unbaffled piston. Drawing on over 40 years of teaching experience at UCLA, the Naval Postgraduate School, and Penn State, the author presents a uniform methodology, based on hydrodynamic fundamentals for analysis of lumped-element systems and wave propagation that can accommodate dissipative mechanisms and geometrically-complex media. Five chapters on vibration and elastic waves highlight modern applications, including viscoelasticity and resonance techniques for measurement of elastic moduli, while introducing analytical techniques and approximation strategies that are revisited in nine subsequent chapters describing all aspects of generation, transmission, scattering, and reception of waves in fluids. Problems integrate multiple concepts, and several include experimental data to provide experience in choosing optimal strategies for extraction of experimental results and their uncertainties. Fundamental physical principles that do not ordinarily appear in other acoustics textbooks, like adiabatic invariance, similitude, the Kramers-Kronig relations, and the equipartition theorem, are shown to provide independent tests of results obtained from numerical solutions, commercial software, and simulations. Thanks to the Veneklasen Research Foundation, this popular textbook is now open access, making the e-book available for free download worldwide. Provides graduate-level treatment of acoustics and vibration suitable for use in courses, for self-study, and as a reference Highlights fundamental physical principles that can provide independent tests of the validity of numerical solutions, commercial software, and computer simulations Demonstrates approximation techniques that greatly simplify the mathematics without a substantial decrease in accuracy Incorporates a hydrodynamic approach to the acoustics of sound in fluids that provides a uniform methodology for analysis of lumped-element systems and wave propagation Emphasizes actual applications as examples of topics explained in the text Includes realistic end-of-chapter problems, some including experimental data, as well as a Solutions Manual for instructors. Features " Talk Like an Acoustician " boxes to highlight key terms introduced in the text.

This book focuses on: (1) the physics of the fundamental dynamics of fluids and of semi-immersed Lagrangian solid bodies that are responding to wave-induced loads; (2) the scaling of dimensional equations and boundary value problems in order to determine a small dimensionless parameter ε that may be applied to linearize the equations and the boundary value problems so as to obtain a linear

system; (3) the replacement of differential and integral calculus with algebraic equations that require only algebraic substitutions instead of differentiations and integrations; and (4) the importance of comparing numerical and analytical computations with data from laboratories and/or nature. Contents:Mathematical PreliminariesFundamentals of Fluid MechanicsLong-Crested, Linear Wave Theory (LWT)Wavemaker TheoriesNonlinear Wave TheoriesDeterministic Dynamics of Small Solid BodiesDeterministic Dynamics of Large Solid BodiesReal Ocean Waves Readership: Graduate students and practitioners in ocean and coastal engineering. Keywords:Deterministic and Nondeterministic Wave-Structure Interactions;Linear and Nonlinear Wavemaker Theories;Linear and Nonlinear Wave Theories;Fundamental Fluid Mechanics;Chaotic Analysis of Cross-Waves