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Ocean Waves and Oscillating Systems Waves and Our Universe The Everyday Physics of Hearing and Vision Waves and the Ear Waves and Oscillations in Nature In Waves Fundamentals of Waves and Oscillations Waves with Power-Law Attenuation Chemical Waves and Patterns Ocean Waves and Kindred Geophysical Phenomena Water Waves and Ship Hydrodynamics The Science of Ocean Waves The Interaction of Ocean Waves and Wind Seismic Waves and Sources Waves and Grains Piezoelectricity, Acoustic Waves and Device Applications Weakly Nonlocal Solitary Waves and Beyond-All-Orders Asymptotics Ocean in Motion In the Waves Magnetohydrodynamic Waves in Geospace Ocean in Motion! Waves and Beaches Waves and Optics Waves in Oceanic and Coastal Waters Swell Physics of Waves Breaking and Dissipation of Ocean Surface Waves Matter Recent Developments in Surface Acoustic Waves Almost All about Waves Waves Waves and Oscillations in Plasmas Theory of Reflection of Electromagnetic and Particle Waves Extreme Ocean Waves Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks Offshore Renewable Energy: Ocean Waves, Tides and Offshore Wind Radar Imaging of the Ocean Waves Introduction to Simple Shock Waves in Air Shock Waves Cold Plasma Waves

Ocean Waves and Oscillating Systems 2020-05-28 understand the absorption of energy from ocean waves by means of oscillating systems with this useful new edition essential for engineers researchers and graduate students and an indispensable tool for those who work in this field

Waves and Our Universe 2003 the revised edition of the highly successful nelson advanced science physics series comprises lively high quality student books for as and a2 level physics nelson thornes and edexcel have listened carefully to customer feedback to bring the best most accurate and up to date materials to the classroom this is the only fully endorsed advanced level modular edexcel specific course and waves and our universe provides full content coverage of unit 4 of the as and a2 level specifications

The Everyday Physics of Hearing and Vision 2014-04-01 humans receive the vast majority of sensory perception through the eyes and ears this non technical book examines the everyday physics behind hearing and vision to help readers understand more about themselves and their physical environment it begins with

Waves and the Ear 1958 waves and oscillations are found in large scales galactic and microscopic scales neutrino in nature their dynamics and behavior heavily depend on the type of medium through which they propagate waves and oscillations in nature an introduction clearly elucidates the dynamics and behavior of waves and oscillations in various mediums it presents

Waves and Oscillations in Nature 2015-05-21 a tale of love heartbreak and surfing from an important new voice in comics in waves is craig thompson s blankets meets william finnegan s barbarian days in this visually arresting graphic novel surfer and illustrator aj dungo remembers his late partner her battle with cancer and their shared love of surfing that brought them strength throughout their time together with his passion for surfing uniting many narratives he intertwines his own story with those of some of the great heroes of surf in a rare work of nonfiction that is as moving as it is fascinating

In Waves 2019-06-04 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

Fundamentals of Waves and Oscillations 1988-07-28 this book integrates concepts from physical acoustics with those from linear viscoelasticity and fractional linear viscoelasticity compressional waves and shear waves in applications such as medical ultrasound elastography and sediment acoustics often follow power law attenuation and dispersion laws that cannot be described with classical viscous and relaxation models this is accompanied by temporal power laws rather than the temporal exponential responses of classical models the book starts by reformulating the classical models of acoustics in terms of standard models from linear elasticity then non classical loss models that follow power laws and which are expressed via convolution models and fractional derivatives are covered in depth in addition parallels are drawn to electromagnetic waves in complex dielectric media the book also contains historical vignettes and important side notes about the validity of central questions while addressed primarily to physicists and engineers working in the field of acoustics this expert monograph will also be of interest to mathematicians mathematical physicists and geophysicists

Waves with Power-Law Attenuation 2019-04-15 the concept of macroscopic waves and patterns developing from chemical reaction coupling with diffusion was presented apparently for the first time at the main meeting of the deutsche bunsengesellschaft für angewandte physikalische chemie held in dresden germany from may 21 to 24 1906 robert luther director of the physical chemistry laboratory in leipzig read his paper on the discovery and analysis of propagating reaction diffusion fronts in autocatalytic chemical reactions 1 2 he presented an equation for the velocity of these new waves $v \propto k^{1/2}$ and asserted that they might have features in common with propagating action potentials in nerve cell axons during the discussion period a skeptic in the audience voiced his objections to this notion it was none other than the great physical chemist walther nernst who believed that nerve impulse propagation was far too rapid to be akin to the propagating fronts he was also not willing to accept luther s wave velocity equation without a derivation luther stood his ground saying his equation was a simple consequence of the corresponding differential equation he described several different autocatalytic reactions that exhibit propagating fronts recommending gelling the solution to prevent convection and even presented a demonstration the autocatalytic permanganate oxidation of oxalate was carried out in a test tube with the image of the front projected onto a screen for the audience

Chemical Waves and Patterns 2012-12-06 originally published in 1934 this book identifies and analyses the different types of waves most prevalent amongst the world s oceans and rivers and is an account of the author s original contributions to the knowledge of wave phenomena chapter one comprehensively explores the size and speed of ocean waves in relation to the velocity of wind chapter

two analyses waves in sand and snow formed and propelled by wind and current whilst chapter three investigates tidal bores and other progressive waves in rivers the book also contains a variety of insightful and fascinating photographs presenting the different varieties of wave formation such as tidal sand waves leaping waves and the roll waves of a stream this book will serve as an important reference work for researchers in the field and will be of considerable value to anyone interested in geophysics climatology and oceanography

Ocean Waves and Kindred Geophysical Phenomena 2015-10-15 in this book an introduction is given to aspects of water waves that play a role in ship hydrodynamics and offshore engineering at first the equations and linearized boundary conditions are derived describing the non viscous free surface water waves with special attention to the combination of steady and non steady flow fields then some simple kinds of free wave solutions are derived such as plane waves and cylindrical waves for several situations steady and unsteady the source singularity function is derived these functions play a role in numerical codes used to describe the motion of ships and offshore structures these codes are mostly based on a boundary integral formulation therefore we give an introduction to these methods it is shown how first order ship motions can be determined in offshore engineering the second order wave drift motions play an important role an introduction to this phenomenon is given and the effects which have to be taken into account are explained by means of a simple example where we can determine nearly all the aspects analytically an interesting example that is worked out is the motion of very large floating flexible platforms with finite draft finally an introduction to the theory of shallow water non linear dispersive waves is presented and shallow water ship hydrodynamics that plays a role in coastal areas and channels is treated here attention is paid to the interaction between passing ships in restricted water in the appendix a short introduction to some of the mathematical tools is given

Water Waves and Ship Hydrodynamics 2010-10-21 zirker is that rare animal who can both communicate the most demanding technical detail and make it accessible new scientist

The Science of Ocean Waves 2013-12-18 this book was published in 2004 the interaction of ocean waves and wind describes in detail the two way interaction between wind and ocean waves and shows how ocean waves affect weather forecasting on timescales of 5 to 90 days winds generate ocean waves but at the same time airflow is modified due to the loss of energy and momentum to the waves thus momentum loss from the atmosphere to the ocean depends on the state of the waves this volume discusses ocean wave evolution according to the energy balance equation an extensive overview of nonlinear transfer is given and as a by product the role of four wave interactions in the generation of extreme events such as freak waves is discussed effects on ocean circulation are described coupled ocean wave atmosphere modelling gives improved weather and wave forecasts this volume will interest ocean wave modellers physicists and applied mathematicians and engineers interested in shipping and coastal protection

The Interaction of Ocean Waves and Wind 2004-10-28 earthquakes come and go as they please leaving behind them trails of destruction and casualties although their occurrence is little affected by what we do or think it is the task of earth scientists to keep studying them from all possible angles until ways and means are found to divert forecast and eventually control them in ancient times people were awestruck by singular geophysical events which were attributed to supernatural powers it was recognized only in 1760 that earthquakes originated within the earth a hundred years later first systematic attempts were made to apply physical principles to study them during the next century scientists accumulated knowledge about the effects of earthquakes their geographic patterns the waves emitted by them and the internal constitution of the earth during the past 20 years seismology has made a tremendous progress mainly because of the advent of modern computers and improvements in data acquisition systems which are now capable of digital and analog recording of ground motion over a frequency range of five orders of magnitude these technologic developments have enabled seismologists to make measurements with far greater precision and sophistication than was previously possible advanced computational analyses have been applied to high quality data and elaborate theoretical models have been devised to interpret them as a result far reaching advances in our knowledge of the earth's structure and the nature of earthquake sources have occurred

Seismic Waves and Sources 2012-12-06 author mark silverman draws on his many experiences as an optical and atomic physicist and on his consummate skills as a teacher and writer about the mysteries of physics to present a remarkable tour of the world of light silverman's wide ranging reflections cover virtually all elements of physical optics and its potential fantastical implications for the future of mankind tables line illustrations photos

Waves and Grains 1998-05-03 this volume covers important subjects in the field of piezoelectric devices and applications with the latest research on piezoelectricity acoustic waves manufacturing technology and design techniques it includes up to date research and information on materials new products technological trends and design methods of benefit to academics and researchers in the piezoelectric device industry contributors to this volume include prominent experts such as clemens ruppel of epco's daining fang of tsinghua university tong yi zhang of university of science and technology hong kong and cs lam of txc corporation a number of papers have been dedicated to professor harry f tiersten of resselear polytechnic institute who passed away in 2006 for his contributions to the fundamental theory of piezoelectricity and methods for acoustic wave device analysis

Piezoelectricity, Acoustic Waves and Device Applications 2007 this is the first thorough examination of weakly nonlocal solitary waves which are just as important in applications as their classical counterparts the book describes a class of waves that radiate away from the core of the

disturbance but are nevertheless very long lived nonlinear disturbances

Weakly Nonlocal Solitary Waves and Beyond-All-Orders Asymptotics 2012-12-06 one of the most fascinating books wired read in 2020 one part science book one part historical narrative one part memoir harrowing and inspiring the wall street journal how a determined scientist cracked the case of the first successful and disastrous submarine attack on the night of february 17 1864 the tiny confederate submarine hl hunley made its way toward the uss housatonic just outside charleston harbor within a matter of hours the union ship s stern was blown open in a spray of wood planks the explosion sank the ship killing many of its crew and the submarine the first ever to be successful in combat disappeared without a trace for 131 years the eight man crew of the hl hunley lay in their watery graves undiscovered when finally raised the narrow metal vessel revealed a puzzling sight there was no indication the blast had breached the hull and all eight men were still seated at their stations frozen in time after more than a century why did it sink why did the men die archaeologists and conservationists have been studying the boat and the remains for years and now one woman has the answers in the waves is much more than just a military perspective or a technical account it s also the story of rachel lance s single minded obsession spanning three years the story of the extreme highs and lows in her quest to find all the puzzle pieces of the hunley balancing a gripping historical tale and original research with a personal story of professional and private obstacles in the waves is an enthralling look at a unique part of the civil war and the lengths one scientist will go to uncover its secrets

Ocean in Motion 2008 solar terrestrial physics deals with phenomena in the region of space between the surface of the sun and the upper atmosphere of the earth a region dominated by matter in a plasma state this area of physics describes processes that generate the solar wind the physics of geospace and the earth s magnetosphere and the interaction of magnetospheri

In the Waves 2020-04-07 the bestselling classic updated for surfers sailors oceanographers climate activists and those who love the sea first published in 1963 and updated in 1979 this classic was an essential handbook for anyone who studies surfs protects or is fascinated by the ocean the original author willard bascom was a master of the subject and included a wealth of information based on theory and statistics but also anecdotal observation and personal experience it brought to the general public understanding of the awesome and complex power of the waves this revision from kim mccooy adds recent facts and anecdotes to update the book s relevance in the time of climate change one of the most significant effects of global warming will be sea level rise what will this mean to waves and beaches and what effects are we already seeing new text and photos cover events such as the indian ocean tsunami of 2004 hurricane katrina flooding of 2005 and the 2011 earthquake and resulting devastation in fukushima as well as students surfers and the general public this updated edition of a beloved classic is an essential handbook for climate scientists and ocean activists providing clear explanations and detailed resources for the constant battle to preserve the shore

Magnetohydrodynamic Waves in Geospace 2019-07-28 this book covers all aspects of waves and optics ranging from one dimensional waves in a vibrating string two dimensional waves in a vibrating membrane both of which are transverse three dimensional electromagnetic waves generated by radiating antennas and longitudinal sound pressure waves in an air column note t f does not sell or distribute the hardback in india pakistan nepal bhutan bangladesh and sri lanka

Ocean in Motion! 2009 waves in oceanic and coastal waters describes the observation analysis and prediction of wind generated waves in the open ocean in shelf seas and in coastal regions with islands channels tidal flats and inlets estuaries fjords and lagoons most of this richly illustrated book is devoted to the physical aspects of waves after introducing observation techniques for waves both at sea and from space the book defines the parameters that characterise waves using basic statistical and physical concepts the author discusses the prediction of waves in oceanic and coastal waters first in terms of generalised observations and then in terms of the more theoretical framework of the spectral energy balance he gives the results of established theories and also the direction in which research is developing the book ends with a description of swan simulating waves nearshore the preferred computer model of the engineering community for predicting waves in coastal waters

Waves and Beaches 2021-03-16 wave watchers around the world know that no two waves are the same yet each and every wave that rises peaks and crashes onto the beach is generated by a much larger force originating thousands of miles away surf journalist team evan slater and peter taras capture the essence of waves and the swells that produce them in this breathtaking collection of wave photography slater characterizes four distinct swells from different corners of the globe and traces their journeys throughout the year from storm to seashore his reflective informative essays amplify these powerful images of hundreds of waves frozen in time beautiful simple universal yet wholly unique and the best thing to watch on the planet

Waves and Optics 2021-02-08 ideal as a classroom text or for individual study this unique one volume overview of classical wave theory covers wave phenomena of acoustics optics electromagnetic radiations and more

[Waves in Oceanic and Coastal Waters](#) 2010-02-04 wave breaking represents one of the most interesting and challenging problems for fluid mechanics and physical oceanography over the last fifteen years our understanding has undergone a dramatic leap forward and wave breaking has emerged as a process whose physics is clarified and quantified ocean wave breaking plays the primary role in the air sea exchange of momentum mass and heat and it is of significant importance for ocean remote sensing coastal and ocean engineering navigation and other practical applications this book outlines the state of the art in our understanding of wave breaking and presents the main outstanding

problems it is a valuable resource for anyone interested in this topic including researchers modellers forecasters engineers and graduate students in physical oceanography meteorology and ocean engineering

Swell 2012-05-09 matter physical science for kids from the picture book science series gets kids excited about science what is the matter everything is matter everything you can touch and hold is made up of matter including you your dog and this book matter is stuff that you can weigh and that takes up space which means pretty much everything in the world is made of matter in matter physical science for kids kids ages 5 to 8 explore the definition of matter and the different states of matter plus the stuff in our world that isn't matter such as sound and light in this nonfiction picture book children are introduced to physical science through detailed illustrations paired with a compelling narrative that uses fun language to convey familiar examples of real world science connections by recognizing the basic physics concept of matter and identifying the different ways matter appears in real life kids develop a fundamental understanding of physical science and are impressed with the idea that science is a constant part of our lives and not limited to classrooms and laboratories simple vocabulary detailed illustrations easy science experiments and a glossary all support exciting learning for kids ages 5 to 8 perfect for beginner readers or as a read aloud nonfiction picture book part of a set of four books in a series called picture book science that tackles different kinds of physical science waves forces energy and matter matter offers beautiful pictures and simple observations and explanations quick stem activities such as weighing two balloons to test if air is matter help readers cross the bridge from conceptual to experiential learning and provide a foundation of knowledge that will prove invaluable as kids progress in their science education perfect for children who love to ask why about the world around them matter satisfies curiosity while encouraging continual student led learning

Physics of Waves 2012-04-26 the topic of surface waves lies at the interface between a number of disciplines physics theoretical and applied mechanics electroacoustics applied mathematics surface science and seismology this volume based on papers delivered at european mechanics colloquium 226 reflects this diversity in approach and background while showing strong links between phenomena arising from different fields the emphasis is on recent developments such as nonlinear and other nonclassical effects which have great importance for both pure science and for applications such as signal processing nondestructive evaluation and seismic studies in recent years there has been considerable progress in the mathematical treatment of nonlinear effects of viscoelastic and of more novel constitutive effects which modify the predictions of linear elastic and piezoelectric theory for surface acoustic wave saw propagation a number of these themes serve to group the contents of this volume part i contains recent advances in the rigorous mathematical treatment of nonlinearity together with a paper giving experimental results showing the need for further theoretical development part ii deals with anisotropic elasticity showing that even the linear theory presents many possible behaviours which are still not fully categorized

Breaking and Dissipation of Ocean Surface Waves 2011-05-19 this text considers waves the great unifying concept of physics with minimal mathematics it emphasizes the behavior common to phenomena such as earthquake waves ocean waves sound waves and mechanical waves topics include velocity vector and complex representation energy and momentum coupled modes polarization diffraction and radiation 1974 edition

Matter 2018-03-01 from sound waves to gravitational waves and from waves of light to crashing rollers on the ocean mike goldsmith explores the fundamental features shared by all waves in the natural world and considers the range of phenomena resulting from wave motion including reflection diffraction and polarization in light and beats and echoes in sound

Recent Developments in Surface Acoustic Waves 2012-12-06 waves and oscillations in plasmas addresses central issues in modern plasma sciences within the context of general classical physics the book is working gradually from an introductory to an advanced level addressing central issues in modern plasma sciences including linear and nonlinear wave phenomena this second edition has been fully updated and includes the latest developments in relevant fluid models as well as kinetic plasma models including a detailed discussion of for instance collisionless landau damping linear as well as nonlinear the book is the result of many years of lecturing plasma sciences in norway denmark germany and also at the united states of america offering a clear separation of linear and nonlinear models the book can be tailored for students of varying levels of expertise in plasma physics in addition to areas as diverse as the space sciences laboratory experiments plasma processing and more features presents a simple physical interpretation of basic problems is presented where possible supplies a complete summary of classical papers and textbooks placed in the proper context includes worked examples exercises and problems with general applicability

Almost All about Waves 2006 this book is written for scientists and engineers whose work involves wave reflection or transmission most of the book is written in the language of electromagnetic theory but as the title suggests many of the results can be applied to particle waves specifically to those satisfying the schrödinger equation the mathematical connection between electromagnetic s or te waves and quantum particle waves is established in chapter 1 the main results for s waves are translated into quantum mechanical language in the appendix there is also a close analogy between acoustic waves and electromagnetic p or tm waves as shown in section 1.4 thus the book though primarily intended for those working in optics microwaves and radio will be of use to physicists chemists and electrical engineers studying reflection and transmission of particles at potential barriers the techniques developed here can also be used by those working in acoustics oceanography and seismology chapter 1 is recommended for all readers it introduces reflection phenomena defines the

notation and previews in section 1.6 the contents of the rest of the book this preview will not be duplicated here we note only that applied topics do appear two examples are the important phenomenon of attenuated total reflection in chapter 8 and the reflectivity of multilayer dielectric mirrors in chapter 12 the subject matter is restricted to linear classical electrodynamics in non magnetic media and the corresponding particle analogues

Waves 2018 this revised and updated second edition details the vast progress that has been achieved in the understanding of the physical mechanisms of rogue wave phenomenon in recent years the selected articles address such issues as the formation of rogue waves due to modulational instability of nonlinear wave field physical and statistical properties of extreme ocean wave generation in deep water as well as in shallow water various models of nonlinear water waves special analysis of nonlinear resonances between water waves and the relation between in situ observations experimental data and rogue wave theories in addition recent results on tsunami waves due to subaerial landslides are presented this book is written for specialists in the fields of fluid mechanics applied mathematics nonlinear physics physical oceanography and geophysics and for students learning these subjects

Waves and Oscillations in Plasmas 2020-05-05 theories of surface waves develop since the end of XIX century and many fundamental problems like existence phase and group velocities attenuation quality factor mode conversion etc have been in part successfully solved within the framework of such simple models as ideal fluids or linear elasticity however a sufficiently complete presentation of this subject particularly for solids is still missing in the literature the sole exception is the book of I. A. Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists unfortunately the book has never been translated to English and its Russian version is also hardly available practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e.g.

Theory of Reflection of Electromagnetic and Particle Waves 1987-02-28 this book is a printed edition of the special issue offshore renewable energy ocean waves tides and offshore wind that was published in *Energies*

Extreme Ocean Waves 2015-09-02 this book is dedicated to studying the ocean with radar tools in particular with space radars being intended mainly for the scientists preoccupied with the problem as well as senior course students it concentrates and generalizes the knowledge scattered over specialized journals the significant part of the book contains the results obtained by the author systematically collects and describes the approaches used by different laboratories and institutions deals with the physics of radar imagery and specifically with ocean surface imagery useful for students and researchers specializing in the area of ocean remote sensing using airborne or space borne radars both SAR and RAR

Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks 2007-03-23 this book provides an elementary introduction to one dimensional fluid flow problems involving shock waves in air the differential equations of fluid flow are approximated by finite difference equations and these in turn are numerically integrated in a stepwise manner with artificial viscosity introduced into the numerical calculations in order to deal with shocks this treatment of the subject is focused on the finite difference approach to solve the coupled differential equations of fluid flow and presents the results arising from the numerical solution using Mathcad programming both plane and spherical shock waves are discussed with particular emphasis on very strong explosive shocks in air this expanded second edition features substantial new material on sound wave parameters Riemann's method for numerical integration of the equations of motion approximate analytical expressions for weak shock waves short duration piston motion numerical results for shock wave interactions and new appendices on the piston withdrawal problem and numerical results for a closed shock tube this text will appeal to students researchers and professionals in shock wave research and related fields students in particular will appreciate the benefits of numerical methods in fluid mechanics and the level of presentation

Offshore Renewable Energy: Ocean Waves, Tides and Offshore Wind 2019-02-11 shock wave research covers important interdisciplinary areas which range from basic topics on gasdynamics combustion and detonation physico chemistry of high temperature gases plasma physics astro and geophysics materials science astronautics and space technology to medical and industrial applications this book includes 202 papers presented at the 18th the international symposium on shock waves which describe the research frontier of shock wave phenomena and 14 plenary lectures which show the state of the art of various fields of shock wave research this proceedings is a unique collection of most important and updated shock wave research

Radar Imaging of the Ocean Waves 2008-09-15 the book aims to present current knowledge concerning the propagation of electromagnetic waves in a homogeneous magnetoplasma for which temperature effects are unimportant it places roughly equal emphasis on the radio and the hydromagnetic parts of the electromagnetic spectrum the dispersion properties of a magnetoplasma are treated as a function both of wave frequency assumed real and of ionization density however there is little discussion of propagation in a stratified medium for collisions is included only which reference may be made to Budden 1 the effect in so far as this can be done with simplicity the book

describes how pulses are radiated from both small and large antennas embedded in a homogeneous magneto plasma the power density radiated from a type of dipole antenna is studied as a function of direction of radiation in all bands of wave frequency input reactance is not treated but the dependence of radiation resistance on wave frequency is described for the entire electromagnetic spectrum also described is the relation between beaming and guidance for alfvén waves

Introduction to Simple Shock Waves in Air 2021-01-22

Shock Waves 2012-12-06

Cold Plasma Waves 2012-12-06

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