

Fundamentals Of Physics 4th Edition James Walker

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the penguin dictionary of physics provides clear and concise definitions for every area of physics from optics and acoustics to mechanics and electronics via quantum theory and relativity the ideal reference guide to this fast evolving subject it will prove invaluable to students and

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dieses lehr lern fach und sachbuch präsentiert die grundlagen der optik in theorie und ausführlich beschriebenem experiment sowie

vielfältige faszinierende optische Phänomene ob in Vorlesungen Seminaren für Projektarbeiten Schulunterricht oder Selbststudium dieses Buch ist eine wertvolle Ressource für alle die sich für Optik interessieren Durch die große Zahl zitierter Originalarbeiten schlägt es nicht nur die Brücke zur Lehre sondern auch zur Forschung Besonderheiten Das Buch besticht durch seine über 1000 Abbildungen darunter über 200 qualitativ hochwertige Farbfotos optischer Naturphänomene sowie einer großen Zahl an wissenschaftlichen und physikdidaktischen Literaturangaben für weiterführende Studien Die Kapitel sind jeweils auch einzeln lesbar aber zusammen ist es eine einmalige Kombination aus einführendem Lehrbuch der klassischen Optik und detaillierter up-to-date Zusammenstellung von Anwendungen im Bereich optischer Naturphänomene Thematisch spannt es einen sehr weiten Bogen von geometrischer Wellen- und Quantenoptik Radiometrie und Photometrie über Farbtheorien und technische Anwendungen wie Spektroskopie bis hin zu Naturphänomenen oder der Frage warum der Himmel nachts dunkel ist Die Grundlagen werden vertieft durch zahlreiche Verständnisfragen und Übungsaufgaben zusätzlich zu vielen Anwendungsbeispielen die von Fensterreflexionen über Lichtwellenleiter und Smartphoneobjektive bis hin zu modernen Beamern reichen Inhalt 1 Einleitung 2 Geometrische Optik 3 Wellenoptik 4 Wechselwirkung von Strahlung mit Materie 5 Quantenoptik 6 Detektoren und Lichtquellen 7 Visuelle Wahrnehmung 8 Atmosphäre der Erde 9 Luftspiegelungen 10 Regenbögen 11 Koronen und Glorien 12 Haloerscheinungen 13 Lichtstreuung und Himmelsfarben 14 Weitere Phänomene aufgrund von Lichtstreuung bis in die Stratosphäre und darüber hinaus Neuerungen zur 2. Auflage Der erste Lehrbuchteil zu den Grundlagen ist komplett neu hinzugefügt Der zweite Teil zu den Anwendungen und Naturphänomenen wurde komplett überarbeitet und aktualisiert zudem illustrieren nun über 200

farbfotos die phänomene die zielgruppe sowohl interessierte laien mit und ohne vorwissen und lehrkräfte an schulen als auch studierende diverser fachrichtungen sowie deren lehrende profitieren von dieser umfangreichen zusammenstellung optik wird nicht nur im bachelor bzw master in physik u astronomie bzw astrophysik sowie in den naturwissenschaften thematisiert sondern auch in studiengängen mit schwerpunkten wie licht und beleuchtungstechnik lasertechnik optische technologien optoelektronik und photonik augenoptik meteorologie uvm vorkenntnisse erforderlich ist kein besonderes vorwissen allerdings ermöglichen manche der angegebenen querbezüge ein tieferes verständnis welches sich erst mit vorkenntnissen aus einigen grundlagenfächern der physik insbesondere des elektromagnetismus der festkörperphysik sowie der quantenphysik vollständig erschließt

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this book is the first edited compilation of selected refereed papers submitted to ertep 2007 the selected papers either dealt with technologies or scientific work and policy findings that address specific environmental problems affecting humanity in general but more specifically people and ecosystems in developing countries it was not necessary for the work to have been done in a developing country but the findings and results must be appropriate or applicable to a developing country setting it is acknowledged that environmental research technology

applications and policy implementation have been demonstrated to improve environmental sustainability and protection in several developed economies the main argument of the book is that similar gains can be achieved in developing economies and economies in transition the book is organized into six chapters along some of the key themes discussed at the conference environmental health management sustainable energy and fuel water treatment purification and protection mining and environment soil stabilization and environmental monitoring it is hoped that the contents of the book will provide an insight into some of the environmental and health mana ment challenges confronting the developing world and the steps being taken to address them

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