

# Halliday Physik Bachelor Edition

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this book serves as a comprehensive guide to the physics of thin film optical spectra bridging the gap between fundamental physics courses such as optics electrodynamics quantum mechanics and solid state physics and the highly specialized literature on the spectroscopy design and application of optical thin film coatings it presumes a basic understanding from these courses and builds upon it starting from the fundamentals of physics the book equips the reader with the ability to derive the theory of optical coatings and apply it to significant spectroscopic problems it encompasses both classical and semiclassical approaches the topics covered range from classical optical coatings in various spectral regions to more specialized areas such as rugate filters and ultrafast mirrors the expanded and updated third edition places a stronger emphasis on basic physical modeling aspects and updates the description of nonlinear coating properties additionally it includes an expanded collection of problems with detailed solutions and explanations enhancing the reader's understanding and application of the concepts

the textbooks solid state theory give an introduction to the methods contents and results of modern solid state physics in two volumes this first volume has the basic courses in theoretical physics as prerequisites i e knowledge of classical mechanics electrodynamics and in particular quantum mechanics and statistical physics is assumed the formalism of second quantization occupation number representation which is needed for the treatment of many body effects is introduced and used in the book the content of the first volume deals with the classical areas of solid state physics phonons and electrons in the periodic potential bloch theorem hartree fock approximation density functional theory electron phonon interaction the first volume is already suitable for bachelor students who want to go beyond the basic courses in theoretical physics and get already familiar with an application area of theoretical physics e g for an elective subject theoretical solid state physics or as a basis for a bachelor thesis every solid state physicist working experimentally should also be familiar with the theoretical methods covered in the first volume the content of the first volume can therefore also be the basis for a module solid state physics in the master program in physics or together with the content of the 2nd volume for a module theoretical solid state physics or advanced theoretical physics the following second volume covers application areas such as superconductivity and magnetism to areas that are current research topics e g quantum hall effect high temperature superconductivity low dimensional structures

der lösungsband für nutzer der bachelor edition und somit für nebenfach studenten zu den aufgaben ausgewählt aus allen themengebieten wie mechanik thermodynamik e lehre optik festkörper atom und kernphysik gibt es sorgfältig aufgezeichnete lösungsansätze die das nachvollziehen leicht machen zahlreiche illustrationen helfen bei der veranschaulichung

wieso denn physik die neue auflage des grünen halliday ermöglicht die einordnung der inhalte in einen größeren kontext bereits bei den kapiteleinstiegen werden konkrete anwendungen in den ingenieurwissenschaften der medizintechnik oder technischen optik hervorgehoben die texte sind anschaulich und leicht zu lesen und viele verständnisfragen unterstützen den lernprozess die leser erhalten eine umfassende einföhrung in die teilgebiete der physik mechanik schwingungen und wellen thermodynamik elektrostatik und dynamik optik moderne physik zu jedem themenkomplex gibt es durchgerechnete beispielaufgaben tipps zur herangehensweise an neue aufgabenstellungen sowie zusammenfassungen sind ideal für die prüfungsvorbereitung viele weitere aufgaben und anschauliches zusatzmaterial sind über den physiktrainer auf halliday de frei zugänglich neu in dieser auflage neues verbessertes layout mit klaren farben zur einfachen orientierung kennzeichnung von mathematischen inhalten die optional sind z b herleitungen die für das verständnis der physikalischen prozesse und deren anwendung nicht notwendigerweise diskutiert werden müssen erweiterung der anfangskapitel zu mathematischen grundlagen vektorrechnung komplexe zahlen der themenbereich elektrostatik und elektrodynamik überarbeitet und erweitert atom und kernphysik wurden überarbeitet jetzt mit medizinischen anwendungen nmr das kapitel zur festkörperphysik wurde komplett überarbeitet gründliche einföhrung des konzepts der halbleiter neue anwendungen led transistoren integrierte schaltkreise

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