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includes answers to odd numbered discussion questions answers with explanations to odd numbered multiple choice questions and solutions to selected odd numbered problems not already solved in the book

wave optics in infrared spectroscopy starts where conventional books about infrared spectroscopy end whereas the latter are based on the bouguer beer lambert law the

cornerstones of this book are wave optics and dispersion theory this gap between both levels of theory is bridged to allow a seamless transition from one to the other based on these foundations the reader is able to choose which level of theory is adequate for the particular problem at hand advanced topics like 2d correlation analysis chemometrics and strong coupling are introduced and viewed from a wave optics perspective spectral mixing rules are also considered to better understand spectra of heterogeneous samples finally optical anisotropy is examined to allow a better understanding of spectral features due to orientation and orientational averaging this discussion is based on a 4×4 matrix formalism which is used not only to simulate and analyze complex materials but also to understand vibrational circular dichroism from a semi classical point of view wave optics in infrared spectroscopy is written as a tool to reunite the fragmented field of infrared spectroscopy it will appeal to chemists physicists and chemical optical engineers assists the reader including those with less physical science backgrounds in using more of the extensive benefits that infrared spectroscopy can provide by making them better aware and informed about the higher level theory foundations of the book are built on wave optics and dispersion theory versus the bouguer beer lambert law of conventional infrared spectroscopy literature limits of lower level of theory are explained in detail provides a thorough introduction to more sophisticated topics with a smooth transition from lower to higher level theory

in hecht s groundbreaking book you ll find real life applications and unparalleled art and photography program a presentation that anticipates students questions and an approach that emphasizes contemporary physics while interweaving historical perspectives hecht s coverage of classical physics is exceptionally clear and insightful he shows students how 20th century physics illuminates the classical topics of each chapter adding excitement to the subject matter approximately 1 300 illustrations make it possible for students to visualize a diversity of physical phenomena many of these are multi frame sequential drawings allowing students to comprehend the temporal unfolding of complex events a selection of sketch art teaches students how to create problem solving diagrams

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