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the compound optical microscope in its various modern forms is probably the most familiar of all laboratory instruments and the electron microscope once an exotic rarity has now become a standard tool in biological and materials research both instruments are often used effectively with little knowledge of the relevant theory or even of how a particular type of microscope functions eventually however proper use interpretation of images and choices of specific applications demand an understanding of fundamental principles this book describes the principles of operation of each type of microscope currently available and of use to biomedical and materials scientists it explains the mechanisms of image formation contrast and its enhancement accounts for ultimate limits on the size of observable details resolving power and resolution and finally provides an account of fourier optical theory principles behind the photographic methods used in microscopy are also

described and there is some discussion of image processing methods the book will appeal to graduate students and researchers in the biomedical sciences and it will be helpful to students taking a course involving the principles of microscopy

presents a comprehensive introduction to the selection operation and testing of infrared devices including a description of modern detector assemblies and their operation this book discusses how to use and test infrared and visible detectors the book provides a convenient reference for those entering the field of ir detector design test or use those who work in the peripheral areas and those who teach and train others in the field chapter 1 contains introductory material radiometry is covered in chapter 2 the author examines thermal detectors in chapter 3 the classical photon detectors simple photoconductors and photovoltaics in chapter 4 and modern photon detectors in chapter 5 chapters 6 through 8 consider respectively individual elements and small arrays of elements the readouts roics used with large imaging arrays and electronics for fpa operation and testing the test set and the testing process are analyzed in chapters 9 and 10 with emphasis on uncertainty and trouble shooting chapters 11 through 15 discuss related skills such as uncertainty cryogenics vacuum optics and the use of fourier transforms in the detector business some highlights of this new edition are that it discusses radiometric nomenclature and calculations detector mechanisms the associated electronics how these devices are tested and real life effects and problems examines new tools in infrared detector operations specifically selection and use of roics electronics for fpa operation operation of single element and very small fpas microbolometers and multi color fpas contains five chapters with frequently sought after information on related subjects such as uncertainty optics cryogenics vacuum and the use of fourier mathematics for detector analyses fundamentals of infrared and visible detector operation and testing second edition provides the background and vocabulary necessary to help readers understand the selection operation and testing of modern infrared devices

the handbook of ellipsometry is a critical foundation text on an increasingly critical subject ellipsometry a measurement technique based on phase and amplitude changes in polarized light is becoming popular in a widening array of applications because of increasing miniaturization of integrated circuits and breakthroughs in knowledge of biological macromolecules deriving from dna and protein surface research ellipsometry does not contact or damage samples and is an ideal measurement technique for determining optical and physical properties of materials at the nano scale with the acceleration of new instruments and applications now occurring this book provides an essential foundation for the current science and technology of ellipsometry for scientists and engineers in industry and academia at the forefront of nanotechnology developments in instrumentation integrated circuits biotechnology and pharmaceuticals divided into four parts this comprehensive handbook covers the theory of ellipsometry instrumentation applications and emerging areas experts in the field contributed to its twelve chapters covering various aspects of ellipsometry

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