

A Textbook Of Optics S Chand

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this textbook is devoted to the fundamentals of optical system design and analysis it is part of series on applied optics covering the math and theory of the optical phenomena this book starts with short overview of the wave optics and transitions to the theory of geometric optics and its limitations it is self contained and only basics of fourier optics are covered that relate to applications and design of optical and imaging systems the third chapter covers concepts of simple imaging systems the last fourth chapter discusses the theory of third order aberrations the text is more appropriate for researchers grad students undergrad students with interests in the realm of optics the series is written in language that is accessible for large audience however calculus is highly recommended as it goes in depth discussing the topics it does not cover the use of specific raytracing software for optimization last update 8 january 2019 length 216 pages 83 figures in color

compiled by 330 of the most widely respected names in the electro optical sciences the encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations from astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe the contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field

die studie mit dem titel investigation of bio organic systems by means of optical techniques befasst sich im technischen teil mit dem aufbau und der inbetriebnahme eines neuartigen ramanspektrometers es wurden die wesentlichen leistungssparameter des systems untersucht und mit erwartungen aus simulationen verglichen ausserdem wurde eine systemintegration mit lichtquellen strahlengang und justageprozeduren durchgeföhrt weiterhin beschäftigt sich diese arbeit mit den möglichkeiten optischer untersuchungsmethoden bezüglich keratinbasierter bio organischer materialien mittels spektroskopischer ellipsometrie wurde neben allgemeinen charakterisierungsuntersuchungen eine studie der hydrationsdynamik von fingernägeln durchgeföhrt die

ergebnisse dieser studie wurden mit einem modell bestehend aus freiem und gebundenem wasser erklärt die ellipsometrie wurde auch für eine in vivo tapestripping studie verwendet welche ein tiefenprofil des stratum corneums lieferte und aufzeigte das depolarisationseffekte eine grosse rolle bei der ergebnisinterpretierung spielen und in zukunft weiter untersucht werden sollten das neue ramanspektrometer wurde ebenfalls für biophysikalische untersuchungen eingesetzt im tiefen uv bei 244 nm wurde eine zerstörungsstudie an einzelhaaren und eine studie an hautbiopsien durchgeführt motivation für messungen in diesem wellenlängenbereich sind fluoreszenzuntersuchungen im sichtbaren sowie eine ebenfalls durchgeführte raman resonanzstudie an destilliertem wasser im wellenlängenbereich zwischen 631 und 237 nm während der studien wurden die technischen grenzen beider optischer aufbauten offenbar und führten u a zu dem design eines neuen periskops für das ramanspektrometer um die probenpositionierung zu verbessern außerdem wurden durch die ellipsometriemessungen grundlagen zum aufbau eines neuartigen speziell an biologische systeme angepassten ellipsometers gelegt

a comprehensive and engaging textbook covering the main areas of optics and its modern applications

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