

DEMONSTRATIONAL OPTICS

Part 2: Coherent and Statistical Optics



**Oleg Marchenko
Sergel Kazantsev
and
Laurentius Windholz**

Demonstrational Optics Part 2 Coherent And Statistical Optics Pt 2

**Oleg Marchenko, Sergi
Kazantsev, Laurentius Windholz**

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here is also used to illustrate many basic phenomena complimenting the existing literature The volume contains a valuable compendium of optical experiments for university college and senior school physics teachers Experiments and modern computer simulations are described within the volume in sufficient detail to allow successful reproduction in a classroom or lecture theatre *Demonstrational Optics* Oleg M. Marchenko,Sergi Kazantsev,Laurentius Windholz,2003-12-31

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Statistical Optics Joseph W. Goodman,2015-04-20 This book discusses statistical methods that are useful for treating problems in modern optics and the application of these methods to solving a variety of such problems This book covers a variety of statistical problems in optics including both theory and applications The text covers the necessary background in statistics statistical properties of light waves of various types the theory of partial coherence and its applications imaging with partially coherent light atmospheric degradations of images and noise limitations in the detection of light New topics have been introduced in the second edition including Analysis of the Vander Pol oscillator model of laser light Coverage on coherence tomography and coherence multiplexing of fiber sensors An expansion of the chapter on imaging with partially coherent light including several new examples An expanded section on speckle and its properties New sections on the cross spectrum and bispectrum techniques for obtaining images free from atmospheric distortions A new section on imaging through atmospheric turbulence using coherent light The addition of the effects of read noise to the discussions of limitations encountered in detecting very weak optical signals A number of new problems and many new references have been added Statistical Optics Second Edition is written for researchers and engineering students interested in optics physicists and chemists as well as graduate level courses in a University Engineering or Physics Department

Theoretical Statistical Optics Olga Korotkova,2021-08-10 This monograph overviews classic and recent developments in theoretical statistical optics in connection with stationary and non stationary pulsed optical source characterization and modeling discusses various phenomena occurring with random light propagating in free space on its interaction with optical systems extended media and particulate collections The text includes scalar beam like and general electromagnetic

treatment of light A brief statistical description of four fundamental experiments relating to random light spatial and temporal field interference intensity interferometry and phase conjugation is also included in order to relate the analytical descriptions with practical observations Rigorous mathematical methods for statistical manipulation of light sources useful for remote shaping of its various average properties enhanced image resolution optimized transmission in random media and for other applications are introduced For illustration of efficient ways for manipulation of light polarization the generalized Stokes Mueller calculus is applied for description of interaction of beam like fields with classic and currently popular devices of polarization optics including a spatial light modulator Random light plays a special role in the image formation process Three imaging modalities including the classic intensity based system with structured source correlations the polarization based imaging system and the ghost interference approach are discussed in detail Theoretical aspects of potential scattering of light from weakly scattering media are considered under a very broad range of assumptions scalar electromagnetic incident light deterministic random light media single particulate media Then problems and methods in light characterization on interaction with extended turbulent like natural media such as the Earth s atmosphere oceans and soft bio tissues that are currently widely used for communication remote sensing and imaging purposes in these media are provided

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web darwinian snails materials and methods for this experiment we tested our hypothesis that the population of the flat periwinkle snail had evolved thicker shells when a species of european green crab was introduced in the same area we used the software simbio virtual labs to create and replicate this experiment

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web this tutorial style lab investigates the requirements for evolution by natural selection using an engaging simulation of crab predation on snails students are able to manipulate the snail population to sequentially turn off variation heritability and differential survival based on shell thickness to investigate the importance of each of

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web created by plasticspoonboi terms in this set 24 q1 1 use the histogram to answer how many snails in the sample had shell thickness 13 5 q1 2 which snail population has the larger average shell thickness the population from 1980s q1 3 which snail population has the larger range of variation in shell thickness the population from 1871

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web knowledge based learning outcomes upon completion of darwinian snails students should be able to describe the three conditions necessary variation heritability and differential survival for evolution by natural selection

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web in this lab you will be studying the impact of shell thickness on the survival of individual snails and the impact of natural selection on a snail population grading the questions that are part of each of the first 5 sections of the simutext will

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web darwinian snails is a simbio virtual lab that presents a model that demonstrates the process of evolution through natural selection the lab examines the assumptions behind natural selection using an interactive simulation of green crabs preying on periwinkle snails