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Intro to: Fourier optics, Light
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03. Diffraction Integrals (Fresnel +
Fraunhofer propagation, Point Spread
Function, Fourier optics) Intro to
Fourier Optics and the 4F correlator
~~Fourier Optics section 3 Fourier
Analysis (and guitar jammin') Sixty
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How Lenses Function The Real
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Transfer Function Introduction to the
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~~Optics Diffraction of Light Fourier~~
~~Optics Fourier Transform Basics~~
~~Fourier optics~~ Fourier Optics model for
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FOURIER OPTICS? What does
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OPTICS meaning \u0026 explanation
But what is the Fourier Transform? A

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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

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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"

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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

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Optics, and hybrid imaging. Imaging Through Turbulence is written in tutorial style, logically guiding you through these essential topics. It helps you bring down to earth the complexities of coping with turbulence.

Fundamentals of Photonics A

Page 33/44

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Complete, thoroughly updated, full-color third edition Fundamentals of Photonics, Third Edition is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and

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Applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of light and matter. Presented at increasing levels of complexity, preliminary sections build

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communications. The third edition features an entirely new chapter on the optics of metals and plasmonic devices. Each chapter contains highlighted equations, exercises, problems, summaries, and selected reading lists. Examples of real systems are included to emphasize

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the concepts governing applications of current interest. Each of the twenty-four chapters of the second edition has been thoroughly updated.

Computational Fourier Optics is a text that shows the reader in a tutorial form how to implement Fourier optical

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Goodman theory and analytic methods on the computer. A primary objective is to give students of Fourier optics the capability of programming their own basic wave optic beam propagations and imaging simulations. The book will also be of interest to professional engineers and physicists learning

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Fourier optics simulation techniques-
either as a self-study text or a text for
a short course. For more advanced
study, the latter chapters and
appendices provide methods and
examples for modeling beams and
pupil functions with more complicated
structure, aberrations, and partial

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coherence. For a student in a course on Fourier optics, this book is a concise, accessible, and practical companion to any of several excellent textbooks on Fourier optical theory.

Speckle Phenomena in Optics
provides a comprehensive discussion

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of the statistical properties of speckle, as well as detailed coverage of its role in applications. Some of the applications discussed include speckle in astronomy, speckle in the eye, speckle in projection displays, speckle in coherence tomography, speckle in lithography, speckle in waveguides

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(modal noise), speckle in optical radar detection, and speckle in metrology.

This book is aimed at graduate students and professionals working in a wide variety of fields.

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Page 43/44

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