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Introduction to Fourier Optics

Under such conditions, the distance z_2 is equal to the focal length f . The equation becomes $h_2(u, v) = \exp(jkz_2) \exp(jkx_2 u + jky_2 v)$

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$U_2(u) = U_1(u) \exp\left[-j \frac{u^2}{2d}\right]$. For $z_1 = 0$ and $d = f$, we have the object illuminated by a normally incident plane wave and situated in the front focal plane. Again $z_2 = f$.

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Fourier optics is the study of classical optics using Fourier transforms, in which the waveform being considered is regarded as made up of a combination, or superposition, of plane waves. It has some parallels to the Huygens-Fresnel principle, in which the wavefront is regarded as being made up of a combination of spherical wavefronts whose sum is the wavefront being studied. A key difference is that Fourier optics considers the plane waves to be natural modes of the propagation medium, as ...

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work in Electrical Engineering has been recognised by a variety of awards and honours, so his text is able to guide students through a comprehensive introduction into Fourier Optics.

This renowned text applies the powerful mathematical methods of fourier analysis to the analysis and synthesis of optical systems. These ubiquitous mathematical tools provide unique insights into the capabilities and limitations of optical systems in both imaging and information processing and lead to many fascinating applications, including the field of holography.

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in a tutorial form how to implement Fourier optical 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 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 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.

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This book covers both the mathematics of inverse problems and optical systems design, and includes a review of the mathematical methods and Fourier optics. The first part of the book deals with the mathematical tools in detail with minimal assumption about prior knowledge on the part of the reader. The second part of the book discusses concepts in optics, particularly propagation of optical waves and coherence properties of optical fields that form the basis of the computational models used for image recovery. The third part provides a discussion of specific imaging systems that illustrate the power of the hybrid computational imaging model in enhancing imaging performance. A number of exercises are provided for readers to develop further

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understanding of computational imaging. While the focus of the book is largely on optical imaging systems, the key concepts are discussed in a fairly general manner so as to provide useful background for understanding the mechanisms of a diverse range of imaging modalities.

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This book constitutes the refereed proceedings of the The International Workshop on Optical SuperComputing, OSC 2008, held in Vienna, Austria, August 2008 in conjunction

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"A clear and straightforward introduction to the Fourier principles behind modern optics, this text is appropriate for advanced undergraduate and graduate students."--Page 4 of cover.

Fourier optics, being a staple of optical design and analysis for over 50 years, has produced many new applications in recent years. In this text, Bob Tyson presents the fundamentals of Fourier optics with sufficient detail to educate the reader, typically an advanced student or working scientist or engineer, to the level of applying the knowledge to a specific set of design or analysis problems. Well aware that

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