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6. Fourier transform and imaging properties of optical systems-- 6,1
Overview-- 6.2 Effects of lens on a wavefront-- 6.3 Imaging property of

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6.5 Linear system properties of imaging systems-- 6.6 Point spread function-- 6.7 Optical transfer function-- 6.9 Signal processing analogies for optics--7.

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Introduction to Fundamentals of Signal Processing 1 What is Digital Signal Processing? oT understand what is Digital Signal Processing (DSP) let's examine what does each of its words mean. Signal is any physical quantity that carries information. Processing is a series of steps or operations to achieve a particular end.

Fundamentals of Signal Processing

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The subject "optical signal processing" can and should include all aspects of optics and signal processing. However, that is too large a scope for a textbook that, like this one, is intended as an introduction to the subject at a level suitable for first year graduate students of electrical engineering, physics, and optical engineering.

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10.3.2 Coherent Detection

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Fundamentals The term coherent is used, in the context of optical communications, to refer to any technique employing nonlinear mixing between two optical waves on a Fig. 10.5 Quadrature modulator 380 I. Roudas semiconductor photodiode.2The carrier frequencies of the optical waves can be identical or different.

Chapter 10 Coherent Optical Communication Systems

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