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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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Optics deals with light waves, which are electromagnetic waves. Electromagnetic waves include not only light waves, but also ordinary alternating current at 60Hz, radio waves, microwaves, infrared, X-rays and γ -rays. Electromagnetic waves obey Maxwell ' s equations, which are introduced in Sect. 2.1, which also treats the electromagnetic wave equation followed by the plane-wave solution in homogeneous, linear isotropic space.

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