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With this self-contained and comprehensive text, students will gain a detailed understanding of the fundamental concepts and major principles of photonics. Assuming only a basic background in optics, readers are guided through key topics such as the nature of optical fields, the properties of optical materials, and the principles of major photonic functions regarding the generation, propagation, coupling, interference, amplification, modulation, and detection of optical waves or signals.

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Professor Jia-Ming Liu s book, Principles of Photonics, serves very well for these purposes it covers optical phenomena and optical properties of materials, as well as the basic

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3.3 explain the principles of interference 4 Understand light in terms of the photon 4.1 explain how photons are produced by different sources of light 4.2 explain, in terms of photons, situations that cannot be accounted for by applying the wave theory of light. BN033487 – Unit 141: The Principles of Photonics

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A transmittance peak occurs when the round-trip phase shift RTbetween the two reflective surfaces is an integral multiple of 2 so that all of the transmitted fields are in phase. From the viewpoint of the field inside the interferometer, this condition results in optical resonance between the two reflective surfaces.

Optical Resonance (Chapter 6) - Principles of Photonics

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