

The Fabry-Perot Interferometer: A Comprehensive Guide to Theory, Design, and Applications

The Fabry-Perot interferometer (FPI) is a versatile optical instrument that can be used to measure a wide range of optical properties of materials. FPIs are used in a variety of applications, including spectroscopy, thin film characterization, and laser cavity design.



The Fabry-Perot Interferometer: History, Theory, Practice and Applications (Series in Optics and Optoelectronics) by Barney G Glaser

★★★★★ 5 out of 5

Language : English
File size : 44174 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 604 pages
Screen Reader : Supported
X-Ray for textbooks : Enabled



This book provides a comprehensive guide to the theory, design, and applications of the Fabry-Perot interferometer. The book is divided into three parts:

* Part I: Theory of the Fabry-Perot Interferometer * Part II: Design of Fabry-Perot Interferometers * Part III: Applications of Fabry-Perot Interferometers

Part I: Theory of the Fabry-Perot Interferometer

Part I of the book provides a detailed overview of the theory of the Fabry-Perot interferometer. The following topics are covered:

* The basic principles of interference * The Fabry-Perot interferometer as a multiple-beam interferometer * The transmission and reflection of light through a Fabry-Perot interferometer * The finesse and resolution of a Fabry-Perot interferometer

Part II: Design of Fabry-Perot Interferometers

Part II of the book provides a practical guide to the design of Fabry-Perot interferometers. The following topics are covered:

* The choice of materials for Fabry-Perot interferometers * The design of the Fabry-Perot interferometer cavity * The alignment and calibration of Fabry-Perot interferometers

Part III: Applications of Fabry-Perot Interferometers

Part III of the book provides a detailed overview of the applications of Fabry-Perot interferometers. The following topics are covered:

* Spectroscopy * Thin film characterization * Laser cavity design * Optical metrology

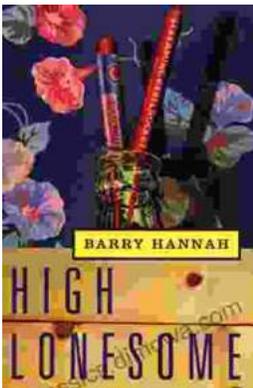
The Fabry-Perot interferometer is a powerful tool for measuring the optical properties of materials. This book provides a comprehensive guide to the theory, design, and applications of the Fabry-Perot interferometer. The book is an essential resource for anyone who wants to use FPIs in their research or development work.



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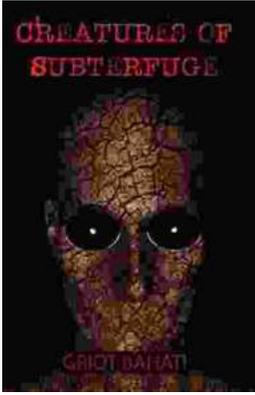
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