

1. Record Nr.	UNINA9910778064903321
Autore	Hobbs Philip C. D
Titolo	Building electro-optical systems [[electronic resource] ] : making it all work / / Philip C.D. Hobbs
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2009
ISBN	1-118-21109-X 1-282-23740-3 9786612237409 0-470-46633-2 1-61583-838-4 0-470-46632-4
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (825 p.)
Collana	Wiley series in pure and applied optics
Disciplina	621.381/045 621.381045
Soggetti	Electrooptical devices - Design and construction Optical instruments
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	BUILDING ELECTRO-OPTICAL SYSTEMS; CONTENTS; Preface; Acknowledgments; 1 Basic Optical Calculations; 2 Sources and Illuminators; 3 Optical Detection; 4 Lenses, Prisms, and Mirrors; 5 Coatings, Filters, and Surface Finishes; 6 Polarization; 7 Exotic Optical Components; 8 Fiber Optics; 9 Optical Systems; 10 Optical Measurements; 11 Designing Electro-Optical Systems; 12 Building Optical Systems; 13 Signal Processing; 14 Electronic Building Blocks; 15 Electronic Subsystem Design; 16 Electronic Construction Techniques; 17 Digital Postprocessing; 18 Front Ends; 19 Bringing Up the System Appendix: Good BooksIndex
Sommario/riassunto	Praise for the First Edition ""Now a new laboratory bible for optics researchers has joined the list: it is Phil Hobbs's Building Electro-Optical Systems: Making It All Work.""-Tony Siegman, Optics & Photonics News Building a modern electro-optical instrument may be the most interdisciplinary job in all of engineering. Be it a DVD player

or a laboratory one-off, it involves physics, electrical engineering, optical engineering, and computer science interacting in complex ways. This book will help all kinds of technical people sort through the complexit

---