

1. Record Nr.	UNINA9910140552403321
Titolo	Holographic data storage [[electronic resource]] : from theory to practical systems / / Kevin Curtis ... [et al.]
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, 2010
ISBN	0-470-97578-4 1-280-76786-3 9786613678638 0-470-66653-6 0-470-66654-4
Descrizione fisica	1 online resource (442 p.)
Altri autori (Persone)	CurtisKevin R
Disciplina	004.5/65
Soggetti	Holographic storage devices (Computer science) Computer science Electronic books.
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	Holographic Data Storage: From Theory to Practical Systems; Contents; Foreword; Preface; List of Contributors; 1 Introduction; 2 Introduction to Holographic Data Recording; 3 Drive Architectures; 4 Drive Components; 5 Materials for Holography; 6 Photopolymer Recording Materials; 7 Media Manufacturing; 8 Media Testing; 9 Tapestry Drive Implementation; 10 Data Channel Modeling; 11 Data Channel; 12 Future Data Channel Research; 13 Writing Strategies and Disk Formatting; 14 Servo and Drive Control; 15 Holographic Read Only Memories; 16 Future Developments; Index
Sommario/riassunto	Holographic Data Storage: From Theory to Practical Systems is a primer on the design and building of a holographic data storage system covering the physics, Servo, Data Channel, Recording Materials, and optics behind holographic storage, the requirements of a functioning system, and its integration into ""real-life"" systems. Later chapters highlight recent developments in holographic storage which have enabled readiness for commercial implementation and discuss the general outlook for the technology, including the transition from

