

1. Record Nr.	UNINA9910829957103321
Titolo	Developments in data storage : materials perspective // [edited by] S. N. Piramanayagam, Chong Tow Chong
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2011 [Piscataway, New Jersey] : , : IEEE Xplore, , [2011]
ISBN	1-118-09683-5 1-283-29467-2 9786613294678 1-118-09682-7 1-118-09681-9
Descrizione fisica	1 online resource (347 p.)
Classificazione	COM059000
Altri autori (Persone)	PiramanayagamS. N ChongChong Tow
Disciplina	620.11 621.39/7
Soggetti	Computer storage devices
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	Preface. -- Acknowledgments. -- 1. Introduction. -- 2.Fundamentals of Magnetism. -- 3. Longitudinal Recording Media. -- 4. Perpendicular Recording Medium. -- 5. Writer heads - Fundamentals. -- 6. Magneto-resistive Read Heads: Fundamentals and Functionality. -- 7. Read sensors for over 1 Terabits per square inch. -- 8. Thin film media Lubricants: Structure, Characterization and Performance. -- 9. Overcoat Materials for Magnetic Recording Media. -- 10. Heat Assisted Magnetic Recording. -- 11. L lo FePt for Magnetic Recording Media Applications. -- 12. Patterned Magnetic Recording Media: Progress and Prospects. -- 13. Phase Change Random Access Memory. -- 14. Non-volatile Solid State Magnetic Memory.
Sommario/riassunto	"The book covers the recent developments in the field of materials for advancing recording technology by experts worldwide. Chapters that provide sufficient information on the fundamentals will be also included, so that the book can be followed by graduate students or a beginner in the field of magnetic recording. The book also would have

a few chapters related to optical data storage. In addition to helping a graduate student to quickly grasp the subject, the book also will serve as a useful reference material for the advanced researcher"--
