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Titolo	High density data storage [[electronic resource]] : principle, technology, and materials / / edited by Yanlin Song, Daoben Zhu
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ISBN	1-282-44160-4 9786612441608 1-61344-052-9 981-283-470-2
Descrizione fisica	1 online resource (272 p.)
Altri autori (Persone)	SongYanlin ZhuDaoben
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Lingua di pubblicazione	Inglese
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Nota di contenuto	Preface; CONTENTS; Chapter 1 High Density Magnetic Data Storage Huimeng Wu, Li Zhang and Yanlin Song; 1. Introduction; 2. Theory of Magnetic Recording; 3. Conventional Magnetic Storage Technology and Its Challenge; 4. High Density Magnetic Recording; 5. Summary; Acknowledgments; References; Chapter 2 Optical Data Storage for the Future Wenfang Yuan and Yanlin Song; 1. Introduction; 2. Materials for Optical Data Storage; 3. Progress in Materials for Future Optical Data Storage; 4. Technologies; 5. Summary; Acknowledgments; References Chapter 3 High Density Electrical Data Storage Guiyuan Jiang and Yanlin Song1. Introduction; 2. Electroactive Materials for Information Storage and Their Mechanisms; 3. High Density Electrical Recording Technologies and Their Recent Developments; 4. New Emerging Techniques/Technologies for High Density Electrical Data Recording; 5. Conclusion; Acknowledgments; References; Chapter 4 Nanoscale Data Storage Jianchang Li and Yanlin Song; 1. Introduction; 2. Molecular Electronics; 3. Bioelectronics; 4. Nanoelectronics; Acknowledgments; References; Index

Sommario/riassunto

The explosive increase in information and the miniaturization of electronic devices demand new recording technologies and materials that combine high density, fast response, long retention time and rewriting capability. As predicted, the current silicon-based computer circuits are reaching their physical limits. Further miniaturization of the electronic components and increase in data storage density are vital for the next generation of IT equipment such as ultra high-speed mobile computing, communication devices and sophisticated sensors. This original book presents a comprehensive introducti

2. Record Nr.	UNINA9910451049103321
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ISBN	1-135-79060-4 1-280-13957-9 0-203-98905-8
Descrizione fisica	1 online resource (272 p.)
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Disciplina	952.03
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Nota di contenuto	Part I. Theoretical introduction. The dilemma of nationalism and internationalism in modern Japan: national interest, Asian brotherhood, international cooperation or world citizenship? / Dick Stegewerns -- Liberal nationalism in imperial Japan: the dilemma of nationalism and internationalism / Kevin M. Doak -- Part II. Case studies: the Meiji and Taisho generations. Constructing national identities: Asia, Japan and

Europe in Fukuzawa Yukichi's theory of civilisation / Annette Schad-Seifert -- Tokutomi Soho and the problem of the nation-state in an imperialist world / Alistair Swale -- Nationalist actors in the internationalist theatre: Nitobe Inazo and Ishii Kikujiro and the League of Nations / Thomas W. Burkman -- Yoshino Sakuzo: the isolated figurehead of the Taisho generation / Dick Stegewerns -- Part III. Case studies: The early Showa generation. Royama Masamichi's perception of international order from the 1920s to 1930s and the concept of the East Asian community / Kobayashi Hiroharu -- Nationalism and internationalism in Japan's economic liberalism: the case of Ishibashi Tanzan / Kurt W. Radtke -- The relation between national socialism and social democracy in the formation of the international policy of the Shakai Taishuto / Oikawa Eijiro -- A melancholic nationalism: Yokomitsu Riichi and the aesthetic of cultural mourning / Seiji M. Lippit.

Sommario/riassunto

Throughout the history of modern Japan there has been a continuous struggle to create an integrated conception of how a politically and/or culturally autonomous Japan might relate to a pluralistic and interactive world. The aim of this study is to scrutinise nationalist and internationalist rhetoric by means of comparatively constant factors such as personal views of humanity, civilisation, progress, the nation and the outside world, and thus to develop new approaches towards the question of the relationship between Japanese nationalism and internationalism. This project brings together a
