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Titolo	Access to scientific research : challenges facing communications in STM / / David J. Brown
Pubbl/distr/stampa	Berlin, Germany ; ; Boston, [Massachusetts] : , : De Gruyter, , 2016 ©2016
ISBN	3-11-039639-4 3-11-036999-0
Descrizione fisica	1 online resource (446 p.)
Collana	Global Studies in Libraries and Information, , 2195-0199 ; ; Volume 2
Classificazione	AK 28400
Disciplina	070.5
Soggetti	Science publishing Scholarly publishing
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	Front matter -- About IFLA -- Foreword Why This Book? -- Acknowledgements -- Contents -- List of Tables -- List of Figures -- List of Acronyms and Abbreviations used in the Text -- Chapter 1. Background -- Chapter 2. Definitions -- Chapter 3. Aims, Objectives, and Methodology -- Chapter 4. Setting the Scene -- Chapter 5. Information Society -- Chapter 6. Drivers for Change -- Chapter 7 A Dysfunctional STM Scene? -- Chapter 8. Comments on the Dysfunctionality of STM Publishing -- Chapter 9. The Main Stakeholders -- Chapter 10. Search and Discovery -- Chapter 11. Impact of Google -- Chapter 12. Psychological Issues -- Chapter 13. Users of Research Output -- Chapter 14. Underlying Sociological Developments -- Chapter 15. Social Media and Social Networking -- Chapter 16. Forms of Article Delivery -- Chapter 17. Future Communication Trends -- Chapter 18. Academic Knowledge Workers -- Chapter 19. Unaffiliated Knowledge Workers -- Chapter 20. The Professions -- Chapter 21. Small and Medium Enterprises -- Chapter 22. Citizen Scientists -- Chapter 23. Learned Societies -- Chapter 24. Business Models -- Chapter 25. Open Access -- Chapter 26. Political Initiatives -- Chapter 27. Summary and Conclusions -- Chapter 28. Research Questions Addressed -- Bibliography -- Index

Sommario/riassunto	The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes. This book explores, from an independent point of view, the current state of the STM publishing market, new publishing technologies and business models as well as the information habit of researchers, the politics of research funders, and the demand for scientific research as a public good. The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future.

2.

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Autore	Zohuri Bahman
Titolo	Directed Energy Weapons : Physics of High Energy Lasers (HEL) / / by Bahman Zohuri
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-31289-8
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (829 p.)
Disciplina	621.042
Soggetti	Energy systems Lasers Photonics Politics and war Energy Systems Optics, Lasers, Photonics, Optical Devices Military and Defence Studies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Directed Energy Weapons -- Laser Technology -- Laser Physics -- Atmospheric Propagation Of High-Energy Laser Beams -- Laser Safety -- Laser Weapons -- Laser Directed Energy Concepts -- High Energy Laser Beam Weapons -- Short Courses In Physics And Mathematics Of High Energy Lasers.

Sommario/riassunto

The only unclassified source of detailed information on high energy laser development Covers scientific and mathematical background, on practical issues governing field application Includes worked examples of all key mathematical equations This book delves deeply into the real-world technologies behind the ‘directed energy weapons’ that many believe exist only within the confines of science fiction. On the contrary, directed energy weapons such as high energy lasers are very real, and this book provides a crash course on all the physical and mathematical concepts that make these weapons a reality. Written to serve both scientists researching the physical phenomena of laser effects, as well as engineers focusing on practical applications; the author provides worked examples demonstrating issues such as how to solve for heat diffusion equation for different boundary and initial conditions. Several sections are devoted to reviewing and dealing with solutions of diffusion equations utilizing the aid of the integral transform techniques. Ultimately, this book examines the state-of-the-art in currently available high energy laser technologies, and suggests future directions for accelerating practical applications in the field.