

IN SEARCH OF PHYSICAL MEDIA

IN SEARCH OF PHYSICAL MEDIA HAS BECOME A COMPELLING JOURNEY FOR COLLECTORS, ENTHUSIASTS, AND ARCHIVISTS ALIKE. DESPITE THE RISE OF DIGITAL STREAMING AND CLOUD STORAGE, PHYSICAL MEDIA CONTINUES TO HOLD A UNIQUE PLACE IN THE WORLD OF ENTERTAINMENT AND DATA PRESERVATION. THIS ARTICLE EXPLORES THE ENDURING APPEAL OF TANGIBLE FORMATS SUCH AS VINYL RECORDS, CDs, DVDs, BLU-RAYS, AND EVEN PRINTED BOOKS. IT EXAMINES THE REASONS BEHIND THE RESURGENCE IN DEMAND, THE CHALLENGES FACED IN ACQUIRING RARE AND OUT-OF-PRINT ITEMS, AND THE FUTURE PROSPECTS OF PHYSICAL MEDIA IN A PREDOMINANTLY DIGITAL AGE. BY UNDERSTANDING THE NUANCES OF SEARCHING FOR AND PRESERVING PHYSICAL MEDIA, ONE GAINS INSIGHT INTO ITS CULTURAL SIGNIFICANCE AND THE EVOLVING LANDSCAPE OF MEDIA CONSUMPTION. THE FOLLOWING SECTIONS DELVE INTO THE HISTORY, BENEFITS, COLLECTING STRATEGIES, AND THE TECHNOLOGICAL CONSIDERATIONS INVOLVED IN THIS QUEST.

- THE HISTORY AND EVOLUTION OF PHYSICAL MEDIA
- REASONS FOR THE CONTINUED DEMAND FOR PHYSICAL MEDIA
- STRATEGIES FOR COLLECTING AND FINDING PHYSICAL MEDIA
- PRESERVATION AND MAINTENANCE OF PHYSICAL MEDIA
- THE FUTURE OF PHYSICAL MEDIA IN A DIGITAL WORLD

THE HISTORY AND EVOLUTION OF PHYSICAL MEDIA

THE JOURNEY OF PHYSICAL MEDIA BEGAN WITH EARLY ANALOG FORMATS THAT REVOLUTIONIZED HOW PEOPLE CONSUMED ENTERTAINMENT AND INFORMATION. FROM VINYL RECORDS AND CASSETTE TAPES TO COMPACT DISCS AND DVDs, EACH FORMAT HAS MARKED A SIGNIFICANT TECHNOLOGICAL MILESTONE. THESE MEDIA TYPES NOT ONLY PROVIDED NEW WAYS TO STORE AND PLAY BACK AUDIO AND VIDEO CONTENT BUT ALSO INFLUENCED CULTURAL TRENDS AND CONSUMER BEHAVIOR. THE EVOLUTION OF PHYSICAL MEDIA REFLECTS ADVANCEMENTS IN RECORDING TECHNOLOGY, MANUFACTURING PROCESSES, AND USER PREFERENCES OVER DECADES.

EARLY FORMATS: VINYL AND CASSETTE TAPES

VINYL RECORDS EMERGED IN THE EARLY 20TH CENTURY AS A PRIMARY MEDIUM FOR MUSIC DISTRIBUTION, PRIZED FOR THEIR WARM SOUND QUALITY AND LARGE-FORMAT ARTWORK. CASSETTE TAPES INTRODUCED PORTABILITY AND CONVENIENCE, ENABLING USERS TO RECORD AND SHARE MUSIC EASILY. BOTH FORMATS DOMINATED THE MARKET FOR SEVERAL DECADES BEFORE THE ADVENT OF DIGITAL TECHNOLOGIES.

DIGITAL REVOLUTION: CDs, DVDs, AND BLU-RAYS

THE INTRODUCTION OF COMPACT DISCS IN THE 1980S MARKED THE BEGINNING OF THE DIGITAL ERA FOR PHYSICAL MEDIA, OFFERING IMPROVED AUDIO CLARITY AND DURABILITY. DVDs EXPANDED THIS DIGITAL FORMAT TO VIDEO CONTENT, FOLLOWED BY BLU-RAYS, WHICH PROVIDED HIGH-DEFINITION VIDEO AND ENHANCED STORAGE CAPACITY. THESE FORMATS CATERED TO THE GROWING DEMAND FOR QUALITY AND CONVENIENCE, SOLIDIFYING PHYSICAL MEDIA'S ROLE IN HOME ENTERTAINMENT.

REASONS FOR THE CONTINUED DEMAND FOR PHYSICAL MEDIA

DESPITE THE CONVENIENCE OF STREAMING SERVICES AND DIGITAL DOWNLOADS, PHYSICAL MEDIA MAINTAINS A LOYAL

FOLLOWING DUE TO SEVERAL DISTINCT ADVANTAGES. COLLECTORS APPRECIATE THE TACTILE EXPERIENCE, OWNERSHIP RIGHTS, AND THE ABILITY TO ACCESS CONTENT WITHOUT RELYING ON INTERNET CONNECTIVITY. ADDITIONALLY, PHYSICAL FORMATS OFTEN FEATURE EXCLUSIVE ARTWORK, LINER NOTES, AND BONUS MATERIALS NOT AVAILABLE DIGITALLY.

QUALITY AND RELIABILITY

PHYSICAL MEDIA TYPICALLY OFFERS CONSISTENT PLAYBACK QUALITY UNAFFECTED BY COMPRESSION ALGORITHMS USED IN STREAMING. AUDIOPHILES AND CINEPHILES VALUE UNCOMPRESSED OR LOSSLESS FORMATS FOUND ON CDs AND BLU-RAYS. FURTHERMORE, PHYSICAL DISCS DO NOT SUFFER FROM BUFFERING ISSUES OR THE RISK OF CONTENT BEING REMOVED FROM DIGITAL PLATFORMS.

OWNERSHIP AND ACCESSIBILITY

PURCHASING PHYSICAL MEDIA GRANTS PERMANENT ACCESS WITHOUT SUBSCRIPTION CONSTRAINTS. THIS ASPECT IS CRUCIAL FOR PRESERVING RARE OR OUT-OF-PRINT WORKS THAT MAY DISAPPEAR FROM ONLINE SERVICES. PHYSICAL COLLECTIONS SERVE AS ARCHIVES THAT SAFEGUARD CULTURAL HERITAGE AGAINST DIGITAL OBSOLESCENCE OR LICENSING CHANGES.

STRATEGIES FOR COLLECTING AND FINDING PHYSICAL MEDIA

IN SEARCH OF PHYSICAL MEDIA, COLLECTORS EMPLOY VARIOUS METHODS TO LOCATE RARE OR VALUABLE ITEMS. THE MARKET INCLUDES BOTH NEW RELEASES AND SECONDHAND GOODS, EACH WITH DISTINCT SOURCING CHANNELS. SUCCESSFUL COLLECTING REQUIRES RESEARCH, PATIENCE, AND SOMETIMES NETWORKING WITHIN ENTHUSIAST COMMUNITIES.

NEW RELEASES AND SPECIALTY STORES

MANY RETAILERS AND SPECIALTY STORES CONTINUE TO STOCK NEW PHYSICAL MEDIA, INCLUDING LIMITED EDITIONS AND EXCLUSIVE PRESSINGS. THESE OUTLETS PROVIDE OPPORTUNITIES TO ACQUIRE RECENT RELEASES AND SUPPORT THE ONGOING PRODUCTION OF PHYSICAL FORMATS.

SECONDHAND MARKETS AND ONLINE PLATFORMS

USED BOOKSTORES, RECORD SHOPS, FLEA MARKETS, AND ONLINE MARKETPLACES ARE INVALUABLE RESOURCES FOR FINDING OUT-OF-PRINT OR RARE PHYSICAL MEDIA. CONDITION ASSESSMENT AND AUTHENTICITY VERIFICATION ARE CRITICAL WHEN PURCHASING FROM THESE SOURCES TO ENSURE QUALITY AND VALUE.

NETWORKING AND COLLECTOR COMMUNITIES

ENGAGING WITH COLLECTOR FORUMS, SOCIAL MEDIA GROUPS, AND DEDICATED CLUBS ENHANCES ACCESS TO INSIDER KNOWLEDGE AND PRIVATE SALES. THESE COMMUNITIES OFTEN SHARE INFORMATION ABOUT UPCOMING RELEASES, TRADING OPPORTUNITIES, AND PRESERVATION TECHNIQUES.

- VISIT LOCAL RECORD AND BOOK STORES
- ATTEND COLLECTOR CONVENTIONS AND FAIRS
- SUBSCRIBE TO NEWSLETTERS AND COLLECTOR MAGAZINES
- PARTICIPATE IN ONLINE FORUMS AND SOCIAL MEDIA GROUPS

- MONITOR AUCTION SITES AND MARKETPLACE LISTINGS REGULARLY

PRESERVATION AND MAINTENANCE OF PHYSICAL MEDIA

MAINTAINING PHYSICAL MEDIA REQUIRES CAREFUL HANDLING AND STORAGE TO PREVENT DEGRADATION OVER TIME. PROPER PRESERVATION EXTENDS THE LIFESPAN OF VALUABLE COLLECTIONS AND ENSURES CONTINUED ENJOYMENT OF THE CONTENT. EACH MEDIUM DEMANDS SPECIFIC CARE PRACTICES BASED ON ITS MATERIAL COMPOSITION AND SUSCEPTIBILITY TO ENVIRONMENTAL FACTORS.

ENVIRONMENTAL CONDITIONS

TEMPERATURE, HUMIDITY, AND LIGHT EXPOSURE SIGNIFICANTLY IMPACT THE CONDITION OF PHYSICAL MEDIA. CONTROLLED ENVIRONMENTS WITH STABLE, MODERATE TEMPERATURES AND LOW HUMIDITY LEVELS HELP PREVENT WARPING, MOLD GROWTH, AND FADING. AVOIDING DIRECT SUNLIGHT AND FLUORESCENT LIGHTING FURTHER PRESERVES THE INTEGRITY OF COVERS, LABELS, AND DISCS.

HANDLING AND CLEANING TECHNIQUES

PROPER HANDLING MINIMIZES SCRATCHES, FINGERPRINTS, AND DUST ACCUMULATION. USING SOFT, LINT-FREE CLOTHS AND APPROPRIATE CLEANING SOLUTIONS TAILORED TO THE MEDIA TYPE ENSURES SAFE MAINTENANCE. STORING ITEMS VERTICALLY AND IN PROTECTIVE SLEEVES OR CASES REDUCES PHYSICAL STRESS AND DAMAGE RISKS.

THE FUTURE OF PHYSICAL MEDIA IN A DIGITAL WORLD

THE ROLE OF PHYSICAL MEDIA CONTINUES TO EVOLVE AS DIGITAL PLATFORMS DOMINATE MAINSTREAM CONSUMPTION. HOWEVER, NICHE MARKETS AND COLLECTOR COMMUNITIES SUSTAIN DEMAND THROUGH INNOVATION AND ADAPTATION. NEW TECHNOLOGIES BLEND PHYSICAL AND DIGITAL EXPERIENCES, SUCH AS AUGMENTED REALITY PACKAGING AND HIGH-FIDELITY ANALOG FORMATS.

HYBRID FORMATS AND COLLECTIBLE EDITIONS

MANUFACTURERS ARE EXPLORING HYBRID RELEASES THAT COMBINE PHYSICAL DISCS WITH DIGITAL DOWNLOAD CODES OR EXCLUSIVE ONLINE CONTENT. COLLECTIBLE EDITIONS OFTEN INCLUDE ENHANCED PACKAGING, ARTWORK, AND MEMORABILIA, APPEALING TO DEDICATED FANS AND COLLECTORS.

ARCHIVAL IMPORTANCE AND CULTURAL PRESERVATION

INSTITUTIONS AND ENTHUSIASTS RECOGNIZE PHYSICAL MEDIA AS CRUCIAL FOR LONG-TERM ARCHIVAL PURPOSES. UNLIKE DIGITAL FILES THAT MAY BECOME INACCESSIBLE DUE TO FORMAT CHANGES OR SERVER SHUTDOWNS, PHYSICAL ITEMS OFFER TANGIBLE PROOF OF CULTURAL ARTIFACTS. CONTINUED INVESTMENT IN PRESERVATION TECHNIQUES ENSURES THAT FUTURE GENERATIONS CAN ACCESS HISTORICAL MEDIA COLLECTIONS.

FREQUENTLY ASKED QUESTIONS

WHAT IS PHYSICAL MEDIA IN THE CONTEXT OF DATA STORAGE?

PHYSICAL MEDIA REFERS TO TANGIBLE STORAGE DEVICES SUCH AS CDs, DVDs, BLU-RAYS, USB DRIVES, EXTERNAL HARD DRIVES, AND PRINTED MATERIALS USED TO STORE AND ACCESS DATA OR INFORMATION.

WHY ARE PEOPLE STILL INTERESTED IN PHYSICAL MEDIA DESPITE THE RISE OF DIGITAL FORMATS?

MANY PEOPLE VALUE PHYSICAL MEDIA FOR ITS TANGIBILITY, COLLECTIBILITY, RELIABILITY WITHOUT INTERNET DEPENDENCY, BETTER OWNERSHIP RIGHTS, AND SOMETIMES SUPERIOR QUALITY COMPARED TO COMPRESSED DIGITAL FORMATS.

WHAT ARE SOME COMMON CHALLENGES WHEN SEARCHING FOR PHYSICAL MEDIA?

CHALLENGES INCLUDE SCARCITY OF CERTAIN FORMATS, DEGRADATION OR DAMAGE OF MEDIA OVER TIME, COMPATIBILITY ISSUES WITH MODERN DEVICES, AND HIGHER COSTS COMPARED TO DIGITAL ALTERNATIVES.

HOW CAN COLLECTORS VERIFY THE AUTHENTICITY OF PHYSICAL MEDIA ITEMS?

COLLECTORS CAN VERIFY AUTHENTICITY BY CHECKING SERIAL NUMBERS, OFFICIAL PACKAGING, MANUFACTURER MARKINGS, PROVENANCE, AND SOMETIMES CONSULTING EXPERT COMMUNITIES OR DATABASES DEDICATED TO PARTICULAR MEDIA TYPES.

ARE THERE SPECIFIC GENRES OR TYPES OF CONTENT MORE SOUGHT AFTER ON PHYSICAL MEDIA?

YES, GENRES LIKE CLASSIC MOVIES, LIMITED EDITION MUSIC ALBUMS, VINTAGE VIDEO GAMES, AND RARE BOOKS ARE OFTEN HIGHLY SOUGHT AFTER IN PHYSICAL FORMATS DUE TO THEIR COLLECTIBLE VALUE AND SOMETIMES UNAVAILABILITY IN DIGITAL FORM.

WHAT ROLE DO PHYSICAL MEDIA STORES PLAY IN THE DIGITAL AGE?

PHYSICAL MEDIA STORES OFFER CURATED SELECTIONS, EXPERT ADVICE, COMMUNITY EVENTS, AND A TACTILE SHOPPING EXPERIENCE THAT DIGITAL PLATFORMS CANNOT REPLICATE, HELPING MAINTAIN INTEREST AND ACCESSIBILITY TO PHYSICAL FORMATS.

HOW DOES PHYSICAL MEDIA CONTRIBUTE TO DATA PRESERVATION?

PHYSICAL MEDIA CAN SERVE AS BACKUP COPIES AND LONG-TERM ARCHIVES, PRESERVING DATA AGAINST DIGITAL CORRUPTION, HACKING, OR OBSOLESCENCE OF DIGITAL FORMATS AND PLATFORMS.

WHAT FUTURE TRENDS ARE EXPECTED IN THE MARKET FOR PHYSICAL MEDIA?

FUTURE TRENDS MAY INCLUDE NICHE MARKET GROWTH FOR VINYL RECORDS AND RETRO GAMING CARTRIDGES, INCREASED PRODUCTION OF LIMITED EDITION PHYSICAL RELEASES, AND INTEGRATION OF PHYSICAL MEDIA WITH DIGITAL ENHANCEMENTS LIKE AUGMENTED REALITY OR NFC TECHNOLOGY.

ADDITIONAL RESOURCES

1. *IN SEARCH OF PHYSICAL MEDIA: THE LOST ART OF TANGIBLE ENTERTAINMENT*

THIS BOOK EXPLORES THE CULTURAL AND EMOTIONAL SIGNIFICANCE OF PHYSICAL MEDIA SUCH AS VINYL RECORDS, DVDs, AND PRINTED BOOKS. IT DELVES INTO HOW THESE FORMATS SHAPED OUR EXPERIENCES BEFORE THE DIGITAL AGE TOOK OVER. READERS ARE TAKEN ON A NOSTALGIC JOURNEY THAT HIGHLIGHTS BOTH THE JOYS AND CHALLENGES ASSOCIATED WITH OWNING AND PRESERVING PHYSICAL COLLECTIONS.

2. *THE ENDURING CHARM OF PHYSICAL MEDIA: WHY WE STILL COLLECT*

FOCUSING ON THE PASSIONATE COMMUNITIES THAT CONTINUE TO CHERISH PHYSICAL MEDIA, THIS BOOK EXAMINES THE MOTIVATIONS BEHIND COLLECTING VINYL, CASSETTE TAPES, AND OTHER ANALOG FORMATS. IT DISCUSSES THE SENSORY AND AESTHETIC APPEAL THAT DIGITAL FORMATS OFTEN LACK. THE AUTHOR ALSO INVESTIGATES HOW PHYSICAL MEDIA FOSTERS A UNIQUE CONNECTION BETWEEN CREATORS AND CONSUMERS.

3. *RESURRECTING THE PAST: THE REVIVAL OF PHYSICAL MEDIA IN A DIGITAL WORLD*

THIS VOLUME INVESTIGATES THE RECENT RESURGENCE IN POPULARITY OF PHYSICAL MEDIA, PARTICULARLY VINYL RECORDS AND PRINTED BOOKS. IT ANALYZES MARKET TRENDS AND CONSUMER BEHAVIOR THAT HAVE LED TO THIS REVIVAL. THE BOOK ALSO CONSIDERS HOW NOSTALGIA AND QUALITY INFLUENCE THIS RENEWED INTEREST.

4. *PHYSICAL MEDIA AND MEMORY: TANGIBLE CONNECTIONS TO OUR CULTURAL HERITAGE*

EXPLORING THE ROLE OF PHYSICAL MEDIA IN PRESERVING PERSONAL AND COLLECTIVE MEMORIES, THIS BOOK DISCUSSES HOW ALBUMS, PHOTO PRINTS, AND PHYSICAL ARCHIVES SERVE AS VESSELS OF HISTORY. IT OFFERS INSIGHTS INTO THE WAYS PHYSICAL ARTIFACTS EVOKE EMOTIONS AND MAINTAIN CULTURAL CONTINUITY. THE AUTHOR ALSO ADDRESSES THE RISKS OF DIGITAL-ONLY PRESERVATION.

5. *THE COLLECTOR'S GUIDE TO PHYSICAL MEDIA FORMATS*

THIS PRACTICAL GUIDE PROVIDES DETAILED INFORMATION ON VARIOUS PHYSICAL MEDIA FORMATS, INCLUDING VINYL, VHS, FLOPPY DISKS, AND PRINTED MAGAZINES. IT COVERS HOW TO IDENTIFY, CARE FOR, AND VALUE THESE ITEMS. IDEAL FOR COLLECTORS, THE BOOK ALSO OFFERS TIPS ON WHERE TO FIND RARE AND VALUABLE PIECES.

6. *THE DIGITAL DILEMMA: BALANCING PHYSICAL MEDIA AND STREAMING*

THIS BOOK EXAMINES THE ONGOING TENSION BETWEEN PHYSICAL MEDIA OWNERSHIP AND THE CONVENIENCE OF DIGITAL STREAMING SERVICES. IT DEBATES ISSUES SUCH AS QUALITY, ACCESSIBILITY, AND THE PERMANENCE OF DIGITAL CONTENT VERSUS PHYSICAL COPIES. THE AUTHOR PRESENTS PERSPECTIVES FROM INDUSTRY EXPERTS AND CONSUMERS ALIKE.

7. *PRESERVING PHYSICAL MEDIA: CHALLENGES AND SOLUTIONS*

FOCUSING ON THE TECHNICAL AND ENVIRONMENTAL CHALLENGES OF PRESERVING PHYSICAL MEDIA, THIS BOOK OUTLINES BEST PRACTICES FOR MAINTAINING VINYL RECORDS, FILM REELS, PRINTED PHOTOGRAPHS, AND MORE. IT HIGHLIGHTS THE IMPORTANCE OF PHYSICAL MEDIA IN ARCHIVAL SCIENCE AND THE EFFORTS REQUIRED TO PREVENT DETERIORATION. CASE STUDIES PROVIDE REAL-WORLD EXAMPLES OF SUCCESSFUL PRESERVATION.

8. *PHYSICAL MEDIA IN THE AGE OF DIGITAL OBSOLESCENCE*

THIS BOOK DISCUSSES HOW PHYSICAL MEDIA IS IMPACTED BY RAPIDLY EVOLVING TECHNOLOGY AND THE RISK OF DIGITAL OBSOLESCENCE. IT EXPLORES THE PARADOX OF PHYSICAL FORMATS BEING BOTH VULNERABLE TO DECAY AND A SAFEGUARD AGAINST THE IMPERMANENCE OF DIGITAL FILES. THE AUTHOR ARGUES FOR A BALANCED APPROACH TO MEDIA PRESERVATION.

9. *THE SENSORY EXPERIENCE OF PHYSICAL MEDIA*

DELVING INTO THE TACTILE, VISUAL, AND AUDITORY PLEASURES OF PHYSICAL MEDIA, THIS BOOK HIGHLIGHTS WHY MANY PEOPLE PREFER TANGIBLE FORMATS OVER DIGITAL. IT EXPLORES HOW PACKAGING, ARTWORK, AND THE ACT OF HANDLING PHYSICAL ITEMS ENHANCE USER ENGAGEMENT. THE BOOK ALSO INCLUDES INTERVIEWS WITH ARTISTS AND DESIGNERS WHO EMPHASIZE PHYSICALITY IN THEIR WORK.

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in search of physical media: IBM TS7700 Release 4.2 Guide Larry Coyne, Derek Erdmann, Joe Hew, Sosuke Matsui, Alberto Barajas Ortiz, Aderson Pacini, Michael Scott, Chen Zhu, IBM Redbooks, 2019-04-19 This IBM® Redbooks® publication covers IBM TS7700 R4.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. The TS7700 has supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world. Using the same hierarchical storage techniques, the TS7700 can also off load to object storage. Given object storage is cloud based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of the release of this document, the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3. To learn about the TS7760 cloud storage tier function, planning, implementation, best practices, and support see IBM Redpaper IBM TS7760 R4.2 Cloud Storage Tier Guide, redp-5514 at: <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular, scalable, and high-performance architecture for mainframe tape virtualization for the IBM Z® environment. It is a fully integrated, tiered storage hierarchy of disk and tape. This storage hierarchy is managed by robust storage management microcode with extensive self-management capability. It includes the following advanced functions: Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries, drives, and media TS7700 delivers the following new capabilities: TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8-way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4.8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library. The TS7760 models are based on high-performance and redundant IBM POWER8® technology. They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700.

in search of physical media: Moving Media Storage Technologies Karl Paulsen, 2012-12-11 Complex media storage computer systems are employed by broadcasters, digital cinemas, digital signage, and other business and entertainment venues to capture, store and retrieve moving media content on systems that will preserve the original integrity of the content over time and technological transition. This book provides detailed information related to the concepts, applications, implementation and interfaces of video file servers, intelligent storage systems, media asset management services, content distribution networks, and mission critical platforms. A tutorial and case example approach is taken to facilitate a thorough understanding of the technologies, using

numerous illustrations, tables and examples. The text and appendices are designed to provide easy to access valuable reference and historical information. .A focus on the media serving concepts and principles employed at the enterprise level .Practical and technological summaries of the applications and linkages between media asset management and storage technologies for studio, television, and media production workflows .Illustrations, standards, tables, and practical summaries serve as handy reference tools

in search of physical media: Understanding the Interactive Digital Media Marketplace: Frameworks, Platforms, Communities and Issues Sharma, Ravi S., Tan, Margaret, Pereira, Francis, 2011-10-31 Increasingly, multimedia content—from music, movies, games, news, books, and digital art to sharable educational material, e-government services, and e-health services—is delivered over broadband networks. With technological advances, cloud computing applications, and social networking approaches, many exciting applications are emerging to deliver this content as Interactive Digital Media (IDM). *Understanding the Interactive Digital Media Marketplace: Frameworks, Platforms, Communities and Issues* presents the results of a large, industry-oriented, multi-national research program. This research seeks to discover usable business models, technology platforms, market strategies and policy frameworks for the emerging global digital economy, particularly for digital media researchers and industry entrepreneurs who wish to reach users around the world.

in search of physical media: Linking Theory and Practice of Digital Libraries Omar Alonso, Helena Cousijn, Gianmaria Silvello, Mónica Marrero, Carla Teixeira Lopes, Stefano Marchesin, 2023-09-21 This book constitutes the refereed proceedings of the 27th International Conference on Linking Theory and Practice of Digital Libraries, TPDL 2023, held in Zadar, Croatia, during September 26-29, 2023. The 13 full papers and 17 short papers included in this book were carefully reviewed and selected from 69 submissions. They were organized in topical sections as follows: Applications and digital library systems; data citation and citation analysis; discovering science, monitoring and publishing science; knowledge creation; Human-Computer Interaction; digital humanities; and digital cultural heritage.

in search of physical media: Raising the Tech Bar at Your Library Nick D. Taylor, 2017-05-11 This book explains how librarians can capitalize on the growing interest and need of patrons for help with technology by expanding their library's tech services to build community engagement and support. Keeping up with technology is more critical and difficult than ever. This challenge exists not only for library staff but for their patrons as well. Today's librarians are often barraged with increasingly complex questions from their patrons about technology—from loading eBooks onto their readers to helping resurrect dead laptops. Why not capitalize on this opportunity and transform your library into a first-stop, go-to resource for your community's tech needs? *Raising the Tech Bar at Your Library: Improving Services to Meet User Needs* demonstrates a variety of ways to expand library services to better serve your community, including how to establish tech bars and tech centers, provide tech training and one-on-one tech help, host drop-in demos, and create a coding dojo. The book covers after-school programs, makerspaces, and embedded librarianship as well. The authors draw on their personal experience to offer a practical blueprint for launching your tech initiative, starting with the preliminary steps of evaluating community needs and getting administrative and public buy-in to obtaining funding, training non-tech staff, setting up and launching your program, and evaluating the services you've established. The book ends with a look to the future that supplies provocative and exciting ideas of how libraries with innovative, tech-focused leadership can push the edge even further. This book serves a wide audience—all public librarians as well as library administrators, those who work in IT departments as well as adult or youth services, and reference librarians who are interested in expanding into this important and exciting area.

in search of physical media: The JPEG 2000 Suite Peter Schelkens, Athanassios Skodras, Touradj Ebrahimi, 2009-09-03 The JPEG 2000 Suite provides a comprehensive overview of the baseline JPEG 2000 standard and its extensions. The first part of the book sets out the core coding

system, additions to the standard and reference software. The second part discusses the successful deployment of JPEG 2000 in application domains such as video surveillance, digital cinema, digital television, medical imaging, defence imaging, security, geographic imaging and remote sensing, digital culture imaging and 3D graphics. The book also presents implementation strategies accompanied by existing software and hardware solutions. Describes secure JPEG 2000 (JPSEC), interactivity protocols (JPIP), volumetric image data compression (JP3D) and image compression in wireless environments (JPWL), amongst others. Uses a structure which allows for easy cross-reference with the components of the standard. Sets out practical implementation examples and results. Examines strategies for future image compression techniques, including Advanced Image Coding and JPEG XR. Includes contributions from international specialists in industry and academia who have worked on the development of the JPEG 2000 standard. Additional material can be found at www.jpeg.org. The JPEG 2000 Suite is an excellent introduction to the JPEG 2000 standard and is of great appeal to practising electronics engineers, researchers, and hardware and software developers using and developing image coding techniques. Graduate students taking courses on image compression, digital archiving, and data storage techniques will also find the book useful, as will graphic designers, artists, and decision makers in industries developing digital applications.

in search of physical media: Electric Fields of the Brain Paul L. Nunez, Ramesh Srinivasan, 2006 This work investigates the connections between psychology and physiology. Topics include synaptic sources, electrode placement, choice of reference, volume conduction, power and coherence, projection of scalp potentials to dura surface, dynamic signatures of conscious experience and more.

in search of physical media: Peer-to-Peer Video Eli M. Noam, Lorenzo Maria Pupillo, 2008-09-05 Peer-to-Peer (P2P) networks are comprised of equal "nodes" that function as both clients and servers, as opposed to systems in which data and information are managed through centralized servers. The implications of this architecture go far beyond the technological realm; the ability of individuals to share digital content files, including audio and video material, in real time, facilitates communication and, at a deeper cultural level, promotes community without hierarchy or strict control. As Eli Noam, Lorenzo Pupillo, and their colleagues demonstrate in this timely and incisive volume, P2P has permeated all facets of society, from YouTube and music downloading experiments on college campuses to international policy debates over intellectual property rights. Peer-to-Peer Video is the first book to apply economic principles to analyze and understand the P2P phenomenon, considering such topics as "consumer demand and the commons" and "file sharing and the copyright crisis." Moreover, the authors, who include scholars, consultants, and industry executives, provide numerous contemporary examples from the U.S. and around the world to shed light on the implications of P2P as a mass medium, considering such issues as pricing, licensing, security, and regulation. The result is provocative commentary on a slice of popular culture that will interest scholars and students, policymakers, media industry professionals, and general readers alike.

in search of physical media: The LaTeX Companion Frank Mittelbach, Michel Goossens, Johannes Braams, David Carlisle, Chris Rowley, 2004-04-23 This is the digital version of the printed book (Copyright © 2004). The LaTeX Companion has long been the essential resource for anyone using LaTeX to create high-quality printed documents. This completely updated edition brings you all the latest information about LaTeX and the vast range of add-on packages now available--over 200 are covered! Full of new tips and tricks for using LaTeX in both traditional and modern typesetting, this book will also show you how to customize layout features to your own needs--from phrases and paragraphs to headings, lists, and pages. Inside, you will find: Expert advice on using LaTeX's basic formatting tools to create all types of publications--from memos to encyclopedias In-depth coverage of important extension packages for tabular and technical typesetting, floats and captions, multicolumn layouts--including reference guides and discussions of the underlying typographic and TeXnical concepts Detailed techniques for generating and typesetting contents lists, bibliographies, indexes, etc. Tips and tricks for LaTeX programmers and systems support New to

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