

Long Term Preservation Of Digital Uments Principles And Practices

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[Strategies to Reduce Sodium Intake in the United States](#) Aug 06 2020 Reducing the intake of sodium is an important public health goal for Americans. Since the 1970s, an array of public health interventions and national dietary guidelines has sought to reduce sodium intake. However, the U.S. population still consumes more sodium than is recommended, placing individuals at risk for diseases related to elevated blood pressure. [Strategies to Reduce Sodium Intake in the United States](#) evaluates and makes recommendations about strategies that could be implemented to reduce dietary sodium intake to levels recommended by the Dietary Guidelines for Americans. The book reviews past and ongoing efforts to reduce the sodium content of the food supply and to motivate consumers to change behavior. Based on past lessons learned, the book makes recommendations for future initiatives. It is an excellent resource for federal and state public health officials, the processed food and food service industries, health care professionals, consumer advocacy groups, and academic researchers.

[The Preservation of History in Fairfax County, Virginia](#) Jan 23 2022 The Preservation of History in Fairfax County, Virginia presents an overview of one urban county's efforts to retain its historic and archaeological sites in the face of increasing developmental pressures during the past thirty-five years. It provides a thorough review of historical development in the county as well as practical guidance on how decisions were developed. Written by two distinguished historians, Ross and Nan Netherton, who were part of the process from the beginning, this study presents a perspective which only familiarity with its successes and failures can bestow. This book is both a historical survey and a "how-to" manual for government officials and preservationists.

[Microorganisms in the Deterioration and Preservation of Cultural Heritage](#) Sep 06 2020 This open access book offers a comprehensive overview of the role and potential of microorganisms in the degradation and preservation of cultural materials (e.g. stone, metals, graphic documents, textiles, paintings, glass, etc.). Microorganisms are a major cause of deterioration in cultural artefacts, both in the case of outdoor monuments and archaeological finds. This book covers the microorganisms involved in biodeterioration and control methods used to reduce their impact on cultural artefacts. Additionally, the reader will learn more about how microorganisms can be used for the preservation and protection of cultural artefacts through bio-based and eco-friendly materials. New avenues for developing methods and materials for the conservation of cultural artefacts are discussed, together with concrete advances in terms of sustainability, effectiveness and toxicity, making the book essential reading for anyone interested in microbiology and the preservation of cultural heritage.

Ancient Underground Opening and Preservation Nov 08 2020 Ancient Underground Opening and Preservation contains 59 papers presented at the International Symposium on Scientific Problems and Long-term Preservation of Largescale Ancient Underground Engineering (Longyou, China, 23-26 October 2015). The contributions focus on scientific and technical issues related to long-term preservation of large-scale ancient underground engineering around the world. The following topics are included in this volume: 1. Scientific issues facing the Longyou Grottoes 2. Weathering prevention and long-term protection strategies for the Longyou Grottoes and other large-scale underground historic sitee 3. Analysis of geological conditions and mechanisms of deformation and damage in surrounding rock in large-scale underground historic sites 4. Analysis of stability and strengthening treatments for large-scale underground historic sites 5. Safety monitoring methods and techniques for large-scale underground historic sites 6. Knowledge learned from large-scale underground historic sites that can be applied to modern underground developments. Ancient Underground Opening and Preservation covers comprehensive papers on the research and technical progress for long-term preservation of ancient underground engineering and historic sites, and will be of interest to scientists, engineers, business managers and government officers involved in the preservation of ancient underground openings.

Food Preservation Techniques Apr 25 2022 This book will show anyone interested in storing food for future use how to do so to optimize the amount of money saved and minimize the risk of damaging food or spreading food borne illnesses. You will learn how to grow for harvest and how to subsequently handle that harvest with this book's crop by crop guide of everything that you might possibly want to store away. You will learn how freezing works and how to go about organizing your freezing. You will learn the various methods of freezing and why failure occurs. In addition to freezing, you will learn about canning and preserving and how each technically works and what problems you may encounter. All of the equipment you may need is laid out in easy to read charts and you will be shown the various final products you can expect. Storing food can be a major challenge for any family or individual who wants to increase the amount of food available without spending additional money. With rising food costs, the advent of at home gardening and the potential represented in storing your own food, it is no wonder that freezing, drying, and canning are becoming much more popular. Freezing alone, which the National Freezing and Refrigerated Foods Association has stated can add as much as 600% to the lifespan of many common refrigerated foods, is an easy, available action to anyone, but only if it is done properly. Experts in food preservation and storage have been interviewed and their commentary has been included here to help you understand what all you will be able to expect from your preserved foods. Learn how to create jellies and jams, pickle vegetables and fruits, dry foods, juice them after storing, and even how to create a simple root cellar for long term storage. No matter your situation, this guide will help you learn how to store multiple forms of vegetables and fruits and to understand how they perform, why failure occurs, and what you need to be successful.

Syverton Memorial Symposium: Analytic Cell Culture Apr 01 2020

Digital Preservation Jan 11 2021 Digital preservation is an issue of huge importance to the library and information profession right now. With the widescale adoption of the internet and the rise of the WWW, the world has been overwhelmed by digital information. Digital data is being produced on a massive scale by individuals and institutions: some of it is born, lives and dies only in digital form, and it is the potential death of this data that is the concern of this volume. So how can information professionals try to remedy this situation? Digital preservation is a complex issue, with many different aspects and views, so in this book each chapter is written by an international expert on the topic. Many case studies and examples are used to ground the ideas and theories in real concerns and practice. This volume will arm the information professional with the knowledge they need about this important and pressing issue and give examples of best practice to help find a way to a solution for this problem. Chapters cover: formats of digital data authenticity of digital data preservation strategies international trends in digital preservation web archiving metadata institutional policies the cost of digital preservation and cost of data loss. Written by leading international experts in digital library development, each book in the Digital Futures series examines in detail some of the key strategic and practical issues facing libraries and other cultural institutions in the rapidly expanding world of digital information. Readership: This is an indispensable guide for all information managers, librarians and archivists. Others in the information and culture world, such as museum curators, media professionals and web content providers will also find it essential reading, as will students of digital culture on library and information studies and other courses.

Long Term Preservation of Favourable Germ Plasm in Arboreal Crops Jul 29 2022 Further investigation of freeze-drying for deciduous fruit tree pollen; Long-term storage of citrus pollen; Long term storage of chamaecypariss obtusa pollen under various conditions of humidity and temperature preliminary results; A tentative modification of tetrazolium method for testing fruit seed vigor; Long term preservation of Japanese pear seeds under extra-low temperatures; Suitable temperature and seed moisture content for maintaining the germinability of citrus seed for long term storage; Seed storage of Japanese persimmon, Diospyros kaki; Further report on seed storage of three coniferous species; Critical water content for survival of Quercus acorns; Process of protein synthesis during the storage and dormancy in tree seeds; Freezing storage of winter vegetative buds of apple trees in liquid nitrogen; Changes in regenerative ability and carbohydrate reserve of tea root during a long-term storage for the maintenance of useful germ plasm; Long-term storage of cut root in tea plant; Long-term preservation of fruit tree scions; Long-term storage of apple scions; Low-temperature storage of mature tea shoot with leaves; Viability of mulberry shoots stored under various conditions; Artificial hybridization of mulberry using cold-stored scions and stocks; Some factors contributing to survival of suspension-cultured cells cooled to temperature of liquid nitrogen; Induction and maintenance of callus tissues in Japanese black pine; in vitro culture of excised mulberry bud and dormancy analysis with it.

Long Term Preservation of DNA in Halite Deposits Nov 20 2021

New Solutions for House Museums Oct 20 2021 This substantially enlarged and expanded second edition of *New Solutions for House Museums: Ensuring the Long-Term Preservation of America's Historic Houses* provides advice for historic site stewards that have concerns about the financial sustainability of their historic house museum and its relevance to its local audience. Seven new case studies have been added for the second edition. The new case studies reinforce the book's central argument that not every historic house museum, whether founded 100 years ago or last month, can be sustained long-term. Three of the new case studies are from diverse historic sites, showcasing how African American, women, and other minority-focused historic sites are pioneering new ways to commemorate their histories and interpret fascinating stories to visitors, with the end goal of creating financially sustainable historic sites that are relevant to their audience. New interviews have been conducted with the ten existing case studies from the first edition to bring them up to date. The new edition adds two new reuse options to the eight introduced in the first edition. This chapter describes how to identify and implement a reuse decision, costs and advisors needed, and tips on decision making. There is a new chapter-long interview with Tom Mayes, Chief Legal Officer and General Counsel for the National Trust for Historic Preservation, on recent legal and ethical issues facing historic sites. Another new chapter provides advice on the essential role of the historic site's Board of Directors as the decision maker for any reuse exploration. The second edition of *New Solutions for House Museums* contains a new introduction to the second edition, an updated conclusion, bibliography, and index.

Networking for Digital Preservation Jun 03 2020 Libraries all over the world have to deal with fast growing numbers of digital materials that need to be safeguarded. Publications in digital form, online or on CD, digitised images, and born-digital objects need to be preserved and kept accessible. Safeguarding digital heritage is a major issue, especially for national libraries, because of their legal task of preserving the national heritage of a country. This volume describes the state of the art of digital repositories, preservation strategies and current projects in the national libraries of Australia, Austria, Canada, China, Denmark, France, Germany, Japan, Netherlands, New Zealand, Portugal, Sweden, Switzerland, the UK and the USA.

New Solutions for Historic House Museums Jul 05 2020 This substantially enlarged and expanded second edition provides advice for historic site stewards with concerns about the financial sustainability of their historic house museum and its relevance to its audience. Harris adds seven new case studies and updates ten others to showcase a range of alternative uses to safeguard these landmark buildings.

Microform & Imaging Review Jan 29 2020

Maintenance of Aeronautical Antifriction Bearings Dec 10 2020 This material represents significant changes between the original D 202.6: 38 and the present D 217.14:B 38. The changes represented by D 202.6: 38/CHANGE/1 were partial additions to the original material.

Preservation in Digital Cartography Sep 18 2021 This book "Preservation in Digital Cartography: Archiving Aspects" should give an overview on how to preserve digital cartographic applications and geospatial data in a sustainable way. The intention of this book is to shape the opinion of affected parties and to bring together various disciplines. Therefore adjacent chapters will generally deal with information technologies, Service-Oriented Architectures, cybercartography, reproduction and historic cartography, which all together can be subsumed in perspective cartographic heritage. The survival of this digital cartographic heritage will base on

long-term preservation strategies that make use of - tensive dissemination on the one hand and sustainable digital archiving methods on the other. This includes a massive development of paradigm that expands from “store-and-save” to “keep-it-online”. The paradigm “store-and-save” is mainly used for analogue masters that consist of st- age media, like vellum, and their visible content. Avoiding the storage - dia from degeneration in climate-controlled areas will help to keep the content accessible. In the digital domain the high interdependency of st- age media, format, device and applications leads to the paradigm “keep-- online” which for example describes the migration to new storage devices. In fact this expansion of paradigm means that the digital domain calls for ongoing actions in order to preserve cartography for a long term.

Central and Southern Florida Project, Broward County Water Preserve Area, Project Implementation ReportSep 26 2019

Preservation of Library Materials Dec 30 2019

Preservation of Library & Archival Materials Jul 25 2019 Provides the basic, practical information needed to plan and implement sound collections care programs or incorporate preservation principles into an existing program.

Cumulated Index Medicus Mar 01 2020

Sustainable Audiovisual Collections Through Collaboration Jun 15 2021 The art and science of audiovisual preservation and access has evolved at breakneck speed in the digital age. The Joint Technical Symposium (JTS) is organized by the Coordinating Council of Audiovisual Archives Associations and brings experts from around the world to learn of technologies and developments in the technical issues affecting the long-term survival and accessibility of audiovisual collections. This collection of essays is derived from presentations made at the 2016 JTS held in Singapore and presents an overview of the latest audiovisual preservation methods and techniques, archival best practices in media storage, as well as analog-to-digital conversion challenges and their solutions.

Methods for General and Molecular Microbiology Jun 27 2022 A first source for traditional methods of microbiology as well as commonly used modern molecular microbiological methods. • Provides a comprehensive compendium of methods used in general and molecular microbiology. • Contains many new and expanded chapters, including a section on the newly important field of community and genomic analysis. • Provides step-by-step coverage of procedures, with an extensive list of references to guide the user to the original literature for more complete descriptions. • Presents methods for bacteria, archaea, and for the first time a section on mycology. • Numerous schematics and illustrations (both color and black and white) help the reader to easily understand the topics presented.

Food Microbiology, 2 Volume Set Mar 13 2021 This book covers application of food microbiology principles into food preservation and processing. Main aspects of the food preservation techniques, alternative food preservation techniques, role of microorganisms in food processing and their positive and negative features are covered. Features subjects on mechanism of antimicrobial action of heat, thermal process, mechanisms for microbial control by low temperature, mechanism of food preservation, control of microorganisms and mycotoxin formation by reducing water activity, food preservation by additives and biocontrol, food preservation by modified atmosphere, alternative food processing techniques, and traditional fermented products processing. The book is designed for students in food engineering, health science, food science, agricultural engineering, food technology, nutrition and dietetic, biological sciences and biotechnology fields. It will also be valuable to researchers, teachers and practising food microbiologists as well as anyone interested in different branches of food.

Occasional Paper - Canadian Wildlife Service Nov 28 2019

Long-term Storage of Military Rations May 15 2021

Canning and Preserving for Beginners Aug 25 2019 Are you interested in learning how to conserve and can food on your own, to save money and eat healthier? Are you an Italian American, and do you want to taste the flavors of your origins? IF YES, THIS IS THE RIGHT BOOK FOR YOU! Luisa Florence will teach you how to have an essential pantry with the 200 preserves that cannot be missing in your wardrobes. It is useless to have 600 recipes: they are like 30 washing machine programs, which you will never use. And then you will have an appetizing chapter with 20 traditional mouth-watering Italian preserves. With this book, you will have an indispensable selection, a base from which to start wandering with other variations and indulging in your imagination. Perhaps, the most important reason to can and maintain food yourself is that you know the ingredients that go into your food. Today very frequently and for different causes, meats and vegetables are being recalled. We, as customers, do not know which pesticides have been used on the goods we buy. Nor do we know how and where they manufactured many of the items we purchase at the grocery store. Learning to can and preserve fruits and vegetables that we grow in our home gardens or buy on a local farmer's market where you can ask the farmer questions about how he grew his crops will help ensure our health and that of our family. Once you know the canning and food storage cycle, healthy and tasteful foods will fill your dinner table, and you can pass on your new-found knowledge to your kids, grandchildren, and friends. Moreover, canning and preserving is a cost-effective way of living, avoiding wasting food, or buying expensive, already canned products. This book contains: - 20 MOUTH-WATERING ITALIAN RECIPES - HOW DOES FOOD SPOIL? - CANNING AND PRESERVING METHODS - WATER BATH CANNING - FERMENTING - MARINATED FAVA BEANS - WATER BATH RECIPES: PRESERVES, CONSERVES, AND SOME MARMALADES ...And much more! Canning is a time-honored, tested method of long-term preservation of a harvest or game. However, all guidelines must be followed comprehensively to avoid illness or injury during the process. So, what are you waiting for? Click "BUY NOW" to learn how to can and preserve food for a healthier life!

Creating and Preserving Digital Records in Government, Science, and the Arts Oct 27 2019

Long-Term Preservation of Digital Documents Nov 01 2022 Human culture depends on our ability to disseminate information, and then maintain and access it over time. This book addresses the problems of storing, reading, and using digital data for periods longer than 50 years. They offer concise descriptions of markup and document description languages like TIFF, PDF, HTML, and XML, explain important techniques such as migration and emulation, and present the OAIS (Open Archival Information System) Reference Model.

Microbial Resource Conservation Mar 25 2022 This book covers broad areas in the conservation of microorganisms. It addresses the short, medium and long-term preservation of agriculturally important microorganisms, as well as culture collections and their roles. The respective chapters address topics such as conventional approaches to bacterial, fungal and algal preservation, as well as methods and strategies for preserving recalcitrant microorganisms. Readers will also find the latest insights into the preservation of vesicular-arbuscular (VA) fungi and ecology, diversity and conservation of endophytes, and entamopathogenic fungi. Microbes of animal and dairy origin, their preservation and biosafety issues are also explored. Microorganisms are the silent and unseen majority of life on Earth, and are characterized by a high degree of genetic and metabolic diversity. It is well documented that no branch of science or society is unaffected by microbial interventions. Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents, and with specific traits that are currently being exploited in agriculture, industry, medicine and biotechnological applications. Such great potential can only be found in microorganisms. The aim of this book – the first entirely devoted to the conservation of microorganisms, and to regulatory mechanisms for access and benefits sharing as per Biological Diversity (BD) Act 2002 – is to promote awareness of our world's microbial wealth, and to introduce readers to strategies and methodologies for the conservation of microorganisms, which could ultimately save human life on Earth.

Long Term Preservation of Electronic Materials Feb 21 2022

Planetary Astrobiology May 03 2020 Are we alone in the universe? How did life arise on our planet? How do we search for life beyond Earth? These profound questions excite and intrigue broad cross sections of science and society. Answering these questions is the province of the emerging, strongly interdisciplinary field of astrobiology. Life is inextricably tied to the formation, chemistry, and evolution of its host world, and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability, informing the search for life in our solar system and beyond. Planetary Astrobiology brings together current knowledge across astronomy, biology, geology, physics, chemistry, and related fields, and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions. Planetary Astrobiology represents the combined efforts of more than seventy-five international experts consolidated into twenty chapters and provides an accessible, interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field. Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems. The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology, planetary science, and exoplanet communities, enabling a new era of comparative planetology that encompasses conditions and processes for the emergence, evolution, and detection of life.

Practical Preservation and Conservation Strategies for Libraries Oct 08 2020 Designed as a "how-to" manual, Practical Preservation and Conservation Strategies for Libraries provides librarians with practical information to help them grapple with specific preservation challenges by identifying areas of concern, optimizing the use of resources put towards preservation, and establishing goals for continual improvement over time. Straightforward and pragmatic, it helps a library to reduce immediate and long-term preservation costs, and strengthen a library's collection development goals. Topics include: -Preservation in the digital age - Establishing long-term preservation goals -Environmental conditions -Preservation needs of specific collections -Understanding use patterns for library materials -Identifying potential threats to a collection -Recognizing readily available preservation resources Almost 50 photographs, figures, checklists, and other tools make this a practical guide libraries will use on a day-to-day basis.

Partners for Preservation Jun 23 2019 Who could be partners to archivists working in digital preservation? This book features chapters from international contributors from diverse backgrounds and professions discussing their challenges with and victories over digital problems that share common issues with those facing digital preservationists. The only certainty about technology is that it will change. The speed of that change, and the ever increasing diversity of digital formats, tools, and platforms, will present stark challenges to the long-term preservation of digital records. Archivists are frequently challenged by the technical expertise, subject matter knowledge, time, and resource requirements needed to solve the broad set of challenges sure to be faced by the archival profession. Partners for Preservation advocates the need for archivists to recruit partners and learn lessons from across diverse professions to work more effectively within the digital landscape. Includes discussion of: - the internet of things - digital architecture - research data and collaboration - open source programming - privacy, memory and transparency - inheritance of digital media. This book will be useful reading for professional archivists and others responsible for digital preservation, students of archival studies and digital preservation.

Preserving Digital Materials Dec 22 2021 This book provides a single-volume introduction to the principles, strategies and practices currently applied by librarians and recordkeeping professionals to the critical issue of preservation of digital information. It incorporates practice from both the recordkeeping and the library communities, taking stock of current knowledge about digital preservation and describing recent and current research, to provide a framework for reflecting on the issues that digital preservation raises in professional practice.

DIGITAL LIBRARIES Feb 09 2021 The book is grouped under five main sub-themes as: Theme 1: Planning Development and Management of Digital Libraries; Theme 2: Collection Development in Digital Environment; Theme 3: Resource Sharing and Networking; Theme 4: New Technologies and Adaptability; Theme 5: Change Management Issues and Strategies.

A Manager's Guide to the Long-term Preservation of Electronic Documents Sep 30 2022 Computers, Data processing, Legal documents, Electronic storage, Data handling, Information exchange, Data security

Proceedings of the Symposium on the Solidification and Long-Term Storage of Highly Radioactive Wastes Aug 18 2021

Long-Term Preservation of Digital Documents Aug 30 2022 Human culture depends on our ability to disseminate information, and then maintain and access it over time. This book addresses the problems of storing, reading, and using digital data for periods longer than 50 years. They offer concise descriptions of markup and document description languages like TIFF, PDF, HTML, and XML, explain important techniques such as migration and emulation, and present the OAIS (Open Archival Information System) Reference Model.

Genetic Preservation of Plant Cells in Vitro Apr 13 2021 The long-term storage and maintenance of viable plant cells and organs is an area of active concern across the range of pure and applied plant sciences. In academic, government and commercial laboratories, the extended storage of propagules of one sort or another, with maximum protection of the genome from mutation and altered expression, is often a very necessary activity that can draw heavily on resources and effort. However, preservation per se is typically not an activity in its own right, but a facilitating technology that is part of a larger programme of work. Consequently, there are many laboratories that do not have the benefit of a specialist in storage technology, and have to delegate the responsibility to individuals, or teams, who are faced with a daunting learning curve. To maximise the chances of success, in the shortest possible time and with minimum losses, these researchers need sources of reference that are authoritative and soundly based in practical experience.

Long-term Storage of Military Rations May 27 2022

Long-term Storage of Lignite at Garrison Dam, Riverdale, N. Dak Jul 17 2021