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# Evaluation of Cellulose Ethers for Conservation

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# Evaluation Of Cellulose Ethers For Conservation

**Robert L. Feller, Myron H. Wilt**



## Evaluation Of Cellulose Ethers For Conservation:

**Evaluation of Cellulose Ethers for Conservation** Robert L. Feller, Myron H. Wilt, 1991-03-21 This report is the result of a three year research program It describes the chemical character of cellulose ethers as a general class of polymers and establishes an approximate ranking of the relative stability of each generic chemical subclass Ranking the thermal stability of the polymers with respect to color change and loss in degree of polymerization led to the conclusion that as generic chemical classes methylcellulose and carboxymethylcellulose appear to be the most stable of the cellulose ethers Water soluble ethylhydroxyethylcellulose apparently also possesses good stability Of questionable long term stability are hydroxyethylcellulose and hydroxy propylcellulose Ethylcellulose and organic soluble ethylhydroxyethylcellulose proved to be of poor stability potentially undergoing marked changes in twenty years or less under normal museum conditions An important additional conclusion reached here as well as in an earlier investigation is that considerable variations in stability can occur within a generic chemical class from differences in the basic raw material a natural product from plants which is not a uniform manufactured chemical substance Further variations can exist due to different manufacturing processes or commercial sources Hence commercial products must be evaluated individually to determine the most stable of a given generic type Nonetheless the authors believe the conclusions expressed here to be valid with regard to the relative stability of the generic chemical classes of cellulose ethers

*Evaluation of Cellulose Ethers for Conservation* Robert L. Feller, Myron H. Wilt, 1993

Research Abstracts of the Scientific Program Getty Conservation Institute. Scientific Program, 1994 This series presents current research being conducted under the auspices of the Getty Conservation Institute An overview of research from 1984 to 1994 including environmental controls in museums the use of protective materials and analyses in the conservation of cultural objects and archaeological sites and the use of new technologies for monitoring documentation and analysis

Cellulose Science and Technology Thomas Rosenau, Antje Potthast, Johannes Hell, 2018-11-30 This book addresses both classic concepts and state of the art technologies surrounding cellulose science and technology Integrating nanoscience and applications in materials energy biotechnology and more the book appeals broadly to students and researchers in chemistry materials energy and environmental science Includes contributions from leading cellulose scientists worldwide with five Anselm Payen Cellulose Award winners and two Hayashi Jisuke Cellulose Award winners Deals with a highly applicable and timely topic considering the current activities in the fields of bioeconomies biorefineries and biomass utilization Maximizes readership by combining fundamental science and application development

Conservation Treatment Methodology Barbara Appelbaum, 2012-05-04 Conservation Treatment Methodology presents a systematic approach to decision making for conservation treatments The methodology is applicable to all cultural property independent of object type or material and its use will enable conservators to be more confident in their treatment decisions Conservation Treatment Methodology is illustrated with numerous examples that emphasize the equal importance of the physical and

cultural aspects of objects for decision making The book also explains how the history of an object and the meaning that it holds for its owner or custodian contribute to determining its treatment Conservation Treatment Methodology is an essential text for conservators historic preservation specialists and restorers as well as students Since it is not a technical manual about how to carry out treatments the book will also be of value to art historians and museum personnel who work with conservators This book is unique in its overarching multidisciplinary approach The writing is not only clear but entertaining and engaging Dan Kushel Distinguished Teaching Professor Art Conservation Department Buffalo New York State College Barbara Appelbaum is one of the premier objects conservators in the United States and the author of Guide to Environmental Protection of Collections Practicing in New York Appelbaum was trained at New York University and began her career at The Brooklyn Museum The author treats a wide range of object types Projects of note have included George Washington s leather portfolio a Marcel Duchamp urinal and a Marilyn Monroe dress

#### **Epoxy Resins in Stone Conservation**

Charles Selwitz, 1992-08-27 This book presents a review of research on the use of epoxy resins as consolidants for sculpture and buildings It deals with both the methods and materials used by conservators focusing on a detailed chemistry of the materials as well as the practical methods of application Epoxy resins have been widely used as structural adhesives to repair cracks in commercial and historic buildings but the application of this technology to the stabilization of fragile stone has generally failed However the proper formulation of epoxy systems with solvents has solved problems of viscosity penetration crust formation and discoloration leading to two different schools of treatment detailed in the publication Conservators in Europe have concentrated on the treatment of statuary and isolated sections of structures with alcohol solutions of the resins maintained in contact with the surface for a period of time in order to get deep penetration In the United States treatment has focused on stabilizing entire structures or major portions of buildings by spraying them with acetone solutions of epoxy resins The various techniques of application are discussed and evaluated The book seeks to provide an expanded inventory of these different techniques allowing the conservator to make informed judgments

#### Chemical Principles of Textile

Conservation Agnes Timar-Balazsy, Dinah Eastop, 2012-09-10 Chemical Principles of Textile Conservation provides must have knowledge for conservators who do not always have a scientific background This vital book brings together from many sources the material science necessary to understand the properties deterioration and investigation of textile artefacts It also aids understanding of the chemical processes during various treatments such as cleaning humidification drying disinfestation disinfection and the use of adhesives and consolidants in conservation of historical textiles Textile conservators will now have ready access to the necessary knowledge to understand the chemistry of the objects they are asked to treat and to make informed decisions about how to preserve textiles The combination of a chemist and a conservator provides the perfect authorial team It ensures a unique dual function of the text which provides textile conservators with vital chemical knowledge and gives scientists an understanding of textile conservation necessary to direct their research The many

practical examples and case studies illustrate the utility of the relatively large chemical introduction and the essential chemical information which is included. The case studies many illustrated in colour range from the treatment of the Ghandis clothes high altitude flying suits and a Mary Quant raincoat to the Hungarian Coronation Mantle. *The Victoria and Albert Museum* Elizabeth James, 2013-10-15 A comprehensive bibliography and exhibition chronology of the world's greatest museum of the decorative arts and design The Victoria and Albert Museum or South Kensington Museum as it used to be known was founded by the British Government in 1852 out of the proceeds from the Great Exhibition of 1851. Like the Exhibition it aimed to improve the expertise of designers and the taste of the public by exposing them to examples of good design from all countries and periods. 2 500 publications have to date been produced by for or in association with the V A The National Art Library which is part of the Museum has prepared this detailed catalogue supplemented by a secondary list of 500 other books closely related to the V A The 1 500 exhibitions and displays recorded include those held in the main Museum and at its branches the Bethnal Green Museum now the National Museum of Childhood and the Theatre Museum Covent Garden and additionally those it has organized at external venues in Great Britain and abroad. The exhibitions and publications are fully cross referenced and there are name title and subject indexes to the whole work as well as an explanatory introduction. Studies in Archaeological Conservation Chris Caple, Vicky Garlick, 2020-12-14 *Studies in Archaeological Conservation* features a range of case studies that explore the techniques and approaches used in current conservation practice around the world and taken together provide a picture of present practice in some of the world leading museums and heritage organisations. Archaeological excavations produce thousands of corroded and degraded fragments of metal ceramic and organic material that are transformed by archaeological conservators into the beautiful and informative objects that fill the cases of museums. The knowledge and expertise required to undertake this transformation is demonstrated within this book in a series of 26 fascinating case studies in archaeological conservation and artefact investigation undertaken in laboratories around the world. These case studies are contextualised by a detailed introductory chapter which explores the challenges presented by researching and conserving archaeological artefacts and details how the case studies illustrate the current state of the subject. *Studies in Archaeological Conservation* is the first book for over a quarter of a century to show the range and diversity of archaeological conservation in this case through a series of case studies. As a result the book will be of great interest to practising conservators conservation students and archaeologists around the world. **Conservation of Furniture** Shayne Rivers, Nick Umney, 2007-06-07 This book is a comprehensive resource covering the principles and practice of the conservation and restoration of furniture and other decorative art objects made wholly or partly of wood. It integrates theory with practice to show the principles which govern interaction between wooden objects the environmental and conservation treatments and the factors which need to be taken into account to arrive at acceptable solutions to conservation problems. The practical knowledge and experience of a team of conservators

active in the field are bought together with theoretical and reference material from diverse sources and unified within a systematic framework Specialist conservators from related disciplines cover diverse materials often incorporated into furniture Materials for Conservation C V Horie, 2013-05-13 *Materials in Conservation* is the definitive introduction to the properties of materials used in conservation The continual struggle of conservators to ameliorate the deterioration of objects has led to increasing use of synthetic polymers These materials are part of the sophisticated technology that has been developed to augment and often replace traditional materials and methods Conservators therefore have a wider range of techniques available However they must be able to appreciate the potentials and pitfalls of any proposed technique The first section explains physical and chemical properties which are important in the conservation process i e application ageing reversal The topics covered include molecular weight glass transition temperature solubility and solvents polymerisation and degradation reactions The second section provides a detailed consideration of the individual materials current and obsolete used in conservation drawing out the factors relevant to their effects on objects The conservation uses of each material are summarised and referenced to allow further study In five appendices the properties of the polymers solvents and their interactions are tabulated with a list of suppliers and conversion table of physical units IUPAC and SI nomenclature is used throughout the book In this second edition this classic text is revised and updated to include modern materials such as cyclododecane and current ideas on adhesion consolidation and reversibility making *Materials in Conservation* the definitive source of vital information in the field This handy reference book should be on the bench of every conservator and available wherever objects from steam engines to dried plants are preserved **Basic Methods of Conserving Underwater**

**Archaeological Material Culture** Donny Leon Hamilton, 1996 *Conservation of Ancient Sites on the Silk Road* Neville Agnew, 1997-06-19 At the Mogao grottoes a World Heritage Site near Dunhuang in the Gobi Desert generations of Buddhist monks created hundreds of rock temples Nearly five hundred of these grottoes remain lined with painted clay sculptures and wall paintings that depict legends portraits customs and the arts of China over a one thousand year period This volume of symposium proceedings marks the culmination of the first phase of the Getty Conservation Institute's collaborative project with the State Bureau of Culture Relics of the People's Republic of China and the Dunhuang Academy **Conservation of Wood Artifacts** A. Unger, A.P. Schniewind, W. Unger, 2013-03-09 The impetus for this book was the desire to systematically organize the extant literature on the conservation of cultural property made of wood from its beginnings before the Christian Era to the year 2000 Various published reviews and monographs including *Holzkonserverung* *Wood Conservation* published by the senior author in 1988 have appeared over the years especially in English and in German They have provided exemplary treat merit of individual areas or aspects of wood conservation but a comprehensive up to date exposition of historic and current developments has been lacking The diverse professional fields of the authors as well as their insights into methods of conservation and restoration of wood artifacts in Europe North America and Asia provided a solid basis for

the success of this undertaking One of the goals during the examination of the literature was that not only well known conservators and scientists from countries that are leaders in wood conservation should be represented but that less well known often not as readily accessible contributions should also be included Only in this manner was it possible to draw a comprehensive picture of the national and international state of wood conservation The Art and Archaeology Technical Abstracts AATA of the Getty Institute were very helpful in our efforts to evaluate as many publications as possible

**The Victoria and Albert Museum** Victoria and Albert Museum, 1998 First Published in 1999 Routledge is an imprint of Taylor Francis an informa company

**Stone Conservation** C. A. Price, 1996-09-05 Is research in stone conservation on the rocks This volume part of the GCI s Research in Conservation series offers an in depth critical appraisal of the status of stone conservation research today identifying areas of strength and weakness in the field as a whole C A Price a noted British archaeological conservation scientist discusses recent research on the causes of stone decay as well as current preventive measures assessment tools and treatment durability He also reviews current research on methods of evaluating the effectiveness of these methodologies and treatments The book includes a comprehensive survey of the literature draws from conversations with professionals in the field and provides recommendations for increasing the effectiveness of research including the improvement of training symposia and research programs and the establishment of conservation policy

**All Things Dickinson** Wendy Martin Ph.D., 2014-01-27 An exciting new reference work that illuminates the beliefs customs events material culture and institutions that made up Emily Dickinson s world giving users a glance at both Dickinson s life and times and the social history of America in the 19th century While Emily Dickinson is one of the most widely studied American poets some dimensions of her life and work are largely under appreciated This book provides the wider context necessary for a more complete understanding of Dickinson presenting Dickinson s life and times as well as discussion of her poetry and letters Prolific author and Dickinson expert Wendy Martin and 59 contributors address the relationship between Emily Dickinson s life and work and the larger world in which she lived Examination of topics such as the history of Amherst MA and the Dickinson family s place in it and the cultural financial political legal and religious practices of the day illuminate important dimensions of Dickinson s experiences and world for students scholars and general readers of this iconic poet s work

**Textile Conservator's Manual** Sheila Landi, 2012-10-12 This second edition of Textile Conservator s Manual now revised and available in paperback provides an in depth review of the current practice ethics and materials used in textile conservation Concentrating on decorative art objects from the major cultures the book gives practical instruction and a wide variety of case histories While the format has been simplified the text has been expanded and updated to include changes brought about by recent developments in the conservation of material This new information will increase the reader s ability to interpret signs of ageing and past activity on the object New case histories in Part Two represent major investigations into the technical history A basis is provided from which to develop practical skills taking into account the needs of the object its

essential characteristics of appearance and above all its structure The book covers a wide range of decorative objects from a fragment of linen 4000 years old to a theatrical backcloth of the twentieth century This book is practical and thought provoking not only about what is being done and how but also why     Restaurator ,2006     **Conservation of Easel Paintings** Joyce Hill Stoner,Rebecca Rushfield,2020-11-30 Conservation of Easel Paintings Second Edition provides a much anticipated update to the previous edition which has come to be known internationally as an invaluable and comprehensive text on the history philosophy and methods of the treatment of easel paintings Including 49 chapters written by more than 90 respected authors from around the world this volume offers the necessary background knowledge in technical art history artists materials and scientific methods of examination and documentation Later sections of the book provide information about the varying approaches and methods for treatment and issues of preventive conservation as well as valuable reflections on storage shipping and exhibition Including exciting developments that have taken place since the last edition was published the book also covers new techniques of examination especially MacroXRF scanning and Reflectance Transmission Imagery Drawing on research presented at recent professional conferences information about innovative methods for cleaning modern and contemporary paintings and insights into modern oil paints is also included Incorporating the latest regulations and understanding of health and safety practices and integrating theory with practice throughout Conservation of Easel Paintings Second Edition will continue to be an indispensable reference for practicing conservators It will also be an essential resource for students taking conservation courses around the world



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