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This report describes the theory of weathering and its effect on polymer properties, methods of stabilisation, and natural and accelerated weathering tests.

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The problems associated with particular polymers used in outdoor applications are explained. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading.

Modern paints and coatings offer an

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astounding variety of formulations that are used to improve the durability, appearance, and lifespan of countless products. From cars to furniture, computers, and mechanical components, paints and coatings play a vital role in nearly every manufactured product available.

Straightforward Guidance for Developing

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and Fulfilling Product-Specific Criteria
Written by an industry insider with more than 30 years of experience, the Paint Technology Handbook provides a practical and straightforward guide for the design of coatings systems. The text highlights the most practical analytical methods and their applications for material selection as well as

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manufacturing processes. Key Topics: · The components and properties of paints, including resins, pigments, extenders, solvents, and additives · The chemical composition, physical properties, function, wear characteristics, and other properties used for material selection · Color standards, metamerism, and color matching

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Processes and Techniques for Operating Optimal, Cost-Efficient Paint and Surface Finishing Systems Encompassing processes and equipment used for manufacturing the paints themselves as well as application systems, this book reviews the essential techniques and equipment for deposition and finishing systems. Highlights Include: ·

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A survey of liquid paint application technologies, including spray and electrodeposition techniques · Transfer efficiency, automated control, and maintenance for all application techniques · Curing, testing methods for finished materials, and quality control techniques
The Paint Technology Handbook

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emphasizes the importance of understanding paint materials, manufacturing techniques, testing, deposition techniques, and equipment in order to meet product-specific needs.

In this book the authors go back to basics to describe the structural differences between dyes and pigments, their mechanisms of action, properties and applications. They set

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the scene by explaining the reasons behind these differences and show how dyes are predominately organic compounds that dissolve or react with substrates, whereas pigments are (predominantly) finely ground inorganic substances that are insoluble and therefore have a different mode of coloring. They also describe the role of

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functional groups and their effect on dyeing ability, contrasting this with the way in which pigments cause surface reflection (or light absorption) depending on their chemical and crystalline structure and relative particle size. The book explores the environmental impact of dyes in a section that covers the physical, chemical,

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toxicological, and ecological properties of dyes and how these are used to assess their effect on the environment and to estimate whether a given product presents a potential hazard. Lastly, it assesses how, in addition to their traditional uses in the textile, leather, paper, paint and varnish industries, dyes and pigments are indispensable in other

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fields such as microelectronics, medical diagnostics, and in information recording techniques.

Cavitation Erosion in Fluid Systems

Eco-friendly and Smart Polymer Systems

15th Edition of the Gardner-Sward

Handbook

State-of-the-Art Sensors Technology in

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Spain 2017 Volume 2

Capabilities for in Situ Analysis

*Lists citations with abstracts for
aerospace related reports
obtained from world wide sources
and announces documents that
have recently been entered into*

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*the NASA Scientific and Technical
Information Database.*

*Serving as an all-in-one guide to
the entire field of coatings
technology, this encyclopedic
reference covers a diverse range
of topics-including basic concepts,*

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coating types, materials, processes, testing and applications- summarizing both the latest developments and standard coatings methods. Take advantage of the insights and experience of over

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This book brings together the knowledge and expertise of internationally recognised scientists with practical experience of in situ analysis using portable X-ray fluorescence technology.

Biocides in Plastics

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*Paint and Coating Testing Manual
Forensic Science Handbook,
Volume I*

*Nature and Artificial Weathering in
the Coatings Industry*

Field Tests of Water Pipe Linings

Bridging the fields of

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conservation, art history, and museum curating, this volume contains the principal papers from an international symposium titled "Historical Painting Techniques, Materials, and Studio Practice" at the University

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of Leiden in Amsterdam,
Netherlands, from June 26 to 29,
1995. The symposium—designed
for art historians, conservators,
conservation scientists, and
museum curators
worldwide—was organized by the

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Department of Art History at the University of Leiden and the Art History Department of the Central Research Laboratory for Objects of Art and Science in Amsterdam. Twenty-five contributors representing

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museums and conservation institutions throughout the world provide recent research on historical painting techniques, including wall painting and polychrome sculpture. Topics cover the latest art historical

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research and scientific analyses of original techniques and materials, as well as historical sources, such as medieval treatises and descriptions of painting techniques in historical literature. Chapters include the

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painting methods of Rembrandt and Vermeer, Dutch 17th-century landscape painting, wall paintings in English churches, Chinese paintings on paper and canvas, and Tibetan thangkas. Color plates and black-and-white

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photographs illustrate works from the Middle Ages to the 20th century.

Nanomaterials Design for Sensing Applications examines chemosensors, beginning with molecules that are able to

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respond to certain stimuli and then showing their assembly and incorporation into sensing materials. The mechanisms of their action for the detection of ions, specific molecules and biostructures, are also covered.

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A major theme is the affordability of sensors, with particular attention paid to inexpensive and reliable colorimetric sensors that can be read by the naked eye. The book also delves into the development of sensors that

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utilize existing RFID infrastructure and introduces a novel strategy for the development of self-healing sensing platforms. This book will help readers develop a better understanding of the types of

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materials used for sensing at the nano level, while also providing an insightful overview on recent advances in this important area. Demonstrates how the use of nanomaterials allows for the creation of cheaper, more

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reliable sensors Shows how metal oxide nanostructures are used as both sensors and supports for embedded organic and organometallic sensing molecules Explores a novel sensing methodology resulting

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from the integration of nanostructured sensors into radio frequency identification tags

This Rapra Review Report examines the use of biocides in plastics with reference to

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material types and application requirements. The commonly available biocides are reviewed and details of their strengths and weaknesses are provided. The author reviews the frequently used test methods for fungi and

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bacteria, and, in an ever-changing regulatory environment, explores the influence of legislation on the current and future use of such biocides. This detailed and state-of-the-art review is supported by

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an indexed section containing several hundred key references and abstracts selected from the Polymer Library.

Forecast of Contracting Opportunities

Historical Painting Techniques,

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Materials, and Studio Practice
Fundamentals, Testing, and
Processing Techniques
Durability of Building Materials &
Components 7 vol.1
Preprints
The definitive guide to organic

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coatings, thoroughly revised and updated—now with coverage of a range of topics not covered in previous editions *Organic Coatings: Science and Technology, Fourth Edition* offers

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unparalleled coverage of organic coatings technology and its many applications. Written by three leading industry experts (including a new, internationally-recognized coatings scientist)

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it presents a systematic survey of the field, revises and updates the material from the previous edition, and features new or additional treatment of such topics as superhydrophobic, ice-phobic,

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antimicrobial, and self-healing coatings; sustainability, artist paints, and exterior architectural primers. making it even more relevant and useful for scientists and engineers in the field, as well

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as for students in coatings courses. The book incorporates up-to-date coverage of recent developments in the field with detailed discussions of the principles underlying the

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technology and their applications in the development, production, and uses of organic coatings. All chapters in this new edition have been updated to assure consistency and to enable

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extensive cross-referencing. The material presented is also applicable to the related areas of printing inks and adhesives, as well as areas within the plastics industry. This new edition Completely revises

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outdated chapters to ensure consistency and to enable extensive cross-referencing
Correlates the empirical technology of coatings with the underlying science throughout Provides expert

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troubleshooting guidance for
coatings scientists and
technologists Features
hundreds of illustrative figures
and extensive references to
the literature A new,
internationally-recognized

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coatings scientist brings fresh perspective to the content. Providing a broad overview for beginners in the field of organic coatings and a handy reference for seasoned professionals, Organic

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Coatings: Science and
Technology, Fourth Edition,
gives you the information and
answers you need, when you
need them.

Drawn from the third edition
of The Coatings Technology

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Handbook, this book focuses entirely on testing, experimental design, and strategies for selecting processing techniques in the coatings, adhesives, paints, and inks industries. Coatings

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Technology: Fundamentals,
Testing, and Processing
Techniques contains the latest
coating and processing met
Originally published in 1982
by Pearson/Prentice-Hall, the
Forensic Science Handbook,

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Third Edition has been fully updated and revised to include the latest developments in scientific testing, analysis, and interpretation of forensic evidence. World-renowned forensic scientist, author, and

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educator Dr. Richard Saferstein once again brings together a contributor list that is a veritable Who's Who of the top forensic scientists in the field. This Third Edition, he is joined by co-editor Dr. Adam

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Hall, a forensic scientist and Assistant Professor within the Biomedical Forensic Sciences Program at Boston University School of Medicine. This two-volume series focuses on the legal, evidentiary, biological,

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and chemical aspects of forensic science practice. The topics covered in this new edition of Volume I include a broad range of subjects including: • Legal aspects of forensic science • Analytical

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instrumentation to include: microspectrophotometry, infrared Spectroscopy, gas chromatography, liquid chromatography, capillary electrophoresis, and mass spectrometry • Trace evidence

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characterization of hairs, dust,
paints and inks • Identification
of body fluids and human DNA
This is an update of a classic
reference series and will serve
as a must-have desk reference
for forensic science

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practitioners. It will likewise be a welcome resource for professors teaching advanced forensic science techniques and methodologies at universities world-wide, particularly at the graduate

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level.

Paint and Coating Testing Manual: 15th. Edition of the Gardner-Sward Handbook
Advanced Tribology
Science and Technology
Weathering of Polymers

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Comprehensive Materials
Finishing

*"Advanced Tribology" is
the proceedings of the
5th China International
Symposium on Tribology
(held every four years)*

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*and the 1st
International Tribology
Symposium of IFToMM,
held in Beijing
24th-27th September
2008. It contains seven
parts: lubrication;*

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*friction and wear;
micro/nano-tribology;
tribology of coatings,
surface and interface;
biotribology; tribo-
chemistry; industry
tribology. The book*

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reflects the recent progress in the fields such as lubrication, friction and wear, coatings, and precision manufacture etc. in the world. The book is

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*intended for
researchers, engineers
and graduate students in
the field of tribology,
lubrication, mechanical
production and
industrial design. The*

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*editors Jianbin Luo,
Yonggang Meng, Tianmin
Shao and Qian Zhao are
all the professors at
the State Key Lab of
Tribology, Tsinghua
University, Beijing.*

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The third edition of the Encyclopedia of Analytical Science is a definitive collection of articles covering the latest technologies in application areas such

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*as medicine,
environmental science,
food science and
geology. Meticulously
organized, clearly
written and fully
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*Encyclopedia of
Analytical Science
provides foundational
knowledge across the
scope of modern
analytical chemistry,
linking fundamental*

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topics with the latest methodologies. Articles will cover three broad areas: analytical techniques (e.g., mass spectrometry, liquid chromatography, atomic

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spectrometry); areas of application (e.g., forensic, environmental and clinical); and analytes (e.g., arsenic, nucleic acids and polycyclic aromatic

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*hydrocarbons), providing
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Offers readers a one-
stop resource with
access to information
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science Presents
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Provides concise and accessible information that is ideal for non-specialists and readers

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*from undergraduate
levels and higher
This proceedings book
presents the main
findings of the 13th
International Seminar on
Polymer Science and*

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*Technology (ISPST
2018), which was held at
Amirkabir University of
Technology, Tehran, on
November 10-22, 2018.*

*This forum was the
culmination of more than*

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*three decades of
academic and industrial
activities of Iranian
scholars and
professionals, and the
participation of many
notable international*

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*scientists, in covering
various important
polymer-related subjects
of concern to Iran and
the world at large,
including polymer
synthesis, processing*

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and properties, as well as issues concerning polymer degradation, stability, and environmental aspects. For the past half a century, the growing

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concern for advancing human health, quality of life, and - especially in the last few decades - avoiding and combating environmental pollution have shaped and driven

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scientific activities geared toward the creation of smart materials that are compatible with the human body, and have prompted scientists and

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*technologists to pursue
research using natural
and sustainable sources.
This book highlights
efforts to responsibly
address the problems
caused by, and which can*

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*potentially be solved
by, polymers and
plastics.*

*Dyes and Pigments
Encyclopedia of Polymer
Applications, 3 Volume
Set*

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Coatings Technology

Forecast of GSA

Contracting

Opportunities

Accelerated Testing

First Published in 2004. Routledge is
an imprint of Taylor & Francis, an

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informa company. This volume presents the proceedings of the seventh Conference on the Durability of Building Materials and Components, held in May 1996. Emphasis is given to service life data and in-service performance, and the text reflects

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current research activity in these areas. Undoubtedly the applications of polymers are rapidly evolving. Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day-to-day challenges leading to improvements in

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quality of life. The Encyclopedia of Polymer Applications presents state-of-the-art research and development on the applications of polymers. This groundbreaking work provides important overviews to help stimulate further advancements in all areas of

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polymers. This comprehensive multi-volume reference includes articles contributed from a diverse and global team of renowned researchers. It offers a broad-based perspective on a multitude of topics in a variety of applications, as well as detailed

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research information, figures, tables, illustrations, and references. The encyclopedia provides introductions, classifications, properties, selection, types, technologies, shelf-life, recycling, testing and applications for each of the entries where applicable. It

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features critical content for both novices and experts including, engineers, scientists (polymer scientists, materials scientists, biomedical engineers, macromolecular chemists), researchers, and students, as well as interested readers in academia,

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industry, and research institutions.
This book is a printed edition of the
Special Issue "State-of-the-Art Sensors
Technology in Spain 2017" that was
published in Sensors
World Surface Coatings Abstracts
Proceedings of CIST2008 & ITS-

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IFTtoMM2008

15th Space Simulation Conference

Encyclopedia of Analytical Science

F.I.R.A. Technical Bulletin

***Details the proper methods to
assess, prevent, and reduce
corrosion in the oil industry***

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using today's most advanced technologies This book discusses upstream operations, with an emphasis on production, and pipelines, which are closely tied to upstream operations. It also examines protective

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coatings, alloy selection, chemical treatments, and cathodic protection—the main means of corrosion control. The strength and hardness levels of metals is also discussed, as this affects the resistance of metals

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to hydrogen embrittlement, a major concern for high-strength steels and some other alloys. It is intended for use by personnel with limited backgrounds in chemistry, metallurgy, and corrosion and will give them a

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general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated. Metallurgy and Corrosion Control in Oil and Gas Production, Second Edition

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updates the original chapters while including a new case studies chapter. Beginning with an introduction to oilfield metallurgy and corrosion control, the book provides in-depth coverage of the field with

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chapters on: chemistry of corrosion; corrosive environments; materials; forms of corrosion; corrosion control; inspection, monitoring, and testing; and oilfield equipment. Covers all aspects of upstream

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***oil and gas production from
downhole drilling to pipelines
and tanker terminal operations
Offers an introduction to
corrosion for entry-level
corrosion control specialists
Contains detailed photographs***

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to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production, Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries. It

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will also be an asset to the entry-level corrosion control professional who may have a theoretical background in metallurgy, chemistry, or a related field, but who needs to understand the practical

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limitations of large-scale industrial operations associated with oil and gas production. From the Foreword Accelerated Testing: Nature and Artificial Weathering in the Coatings Industry is aimed at all those

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involved or interested in creating, producing, applying, and testing modern high-quality coatings for outdoor use.

Coatings are exposed to a great many severe natural stresses that cause a gradual

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deterioration of the properties which are responsible for the coatings' very quality. Nevertheless, buyers expect coated products to remain in an as-new condition -- which is mostly characterised by a highly

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attractive appearance and intact surface -- for as long as possible. This calls for coatings of high weatherability and long service life. In this book, accelerated testing, through its simulation of the destructive action of natural

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weathering, is the means for testing this coating quality. Test engineers shoulder much responsibility because not only must the results form the basis for reliable predictions, but they must also be obtained

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economically and as quickly as possible. Their results are the dominant factor in any decision to take a new coating creation into series production.

Accelerated testing has become an indispensable tool in the paint

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and coatings chemistry as a means of avoiding nasty surprises by coatings in normal use. Other methods of predicting service life are still too unreliable, given the extent of current weathering knowledge.

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Modern-day, high-quality coatings are highly complex systems which contain numerous essential additives. Not surprisingly, coatings chemistry is therefore sometimes jokingly likened to

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alchemy. But natural weathering, in all its random manifestations of different impact, is equally complex. Words alone cannot describe how best to simulate the team-like interaction of such a complex system in the

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laboratory. There is more to successful simulation than applying a standardized test method, or switching on a fully controlled weathering device which has been marketed as an all-rounder. It takes know-how,

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experience and skill. This book will help such abilities to be acquired.

Finish Manufacturing Processes are those final stage processing techniques which are deployed to bring a product to readiness

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for marketing and putting in service. Over recent decades a number of finish manufacturing processes have been newly developed by researchers and technologists. Many of these developments have been

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reported and illustrated in existing literature in a piecemeal manner or in relation only to specific applications. For the first time, Comprehensive Materials Finishing integrates a wide body of this knowledge and

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understanding into a single, comprehensive work. Containing a mixture of review articles, case studies and research findings resulting from R & D activities in industrial and academic domains, this reference work

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focuses on how some finish manufacturing processes are advantageous for a broad range of technologies. These include applicability, energy and technological costs as well as practicability of implementation.

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The work covers a wide range of materials such as ferrous, non-ferrous and polymeric materials. There are three main distinct types of finishing processes: Surface Treatment by which the properties of the material are

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modified without generally changing the physical dimensions of the surface; Finish Machining Processes by which a small layer of material is removed from the surface by various machining processes to

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render improved surface characteristics; and Surface Coating Processes by which the surface properties are improved by adding fine layer(s) of materials with superior surface characteristics. Each of these

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primary finishing processes is presented in its own volume for ease of use, making Comprehensive Materials Finishing an essential reference source for researchers and professionals at all career stages

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in academia and industry. Provides an interdisciplinary focus, allowing readers to become familiar with the broad range of uses for materials finishing Brings together all known research in materials

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***finishing in a single reference for
the first time Includes case
studies that illustrate theory and
show how it is applied in practice
Fifteenth Edition of the Gardner-
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Film Formation and Properties***

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***Organic Coatings
A List of Small Business
Concerns Interested in
Performing Research and
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Paint Technology Handbook
Third Edition brings acclaimed***

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textthoroughly up to date with the latestorganic coatings technology Organic Coatings, Third Edition is an unparalleled reference and text for organic coatings technology and its myriad applications. It begins

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with discussions of key principles of coatings, then thoroughly explores raw materials, physical concepts, formulations, and applications. Scientists, engineers, and paint formulators all gain a deeper understanding

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of the principles underlying the technology and learn how to use these principles in the development, production, and application of organic coatings. The four authors, all leading industry experts, offer a unique

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approach to the topic that correlates the empirical technology of coatings with the underlying science. This Third Edition has been completely revised and updated to reflect numerous changes in the field,

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including changes driven by increasing pressure to lower VOC emissions, reduce energy requirements, and eliminate potential health hazards from organic coatings components. In addition, the authors have

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developed new material to make the text more accessible for scientists and engineers first entering the field, as well as for students taking coatings courses. At the same time, the hallmarks that distinguished the

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two previous editions have been retained, including:

Troubleshooting guidance for coatings scientists and technologists
Clear differentiation between established principles and

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hypotheses requiring further research
Precise definitions of coatings industry terminology
Extensive references to the current literature
Hundreds of figures that help readers visualize key concepts and

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techniques Whether you are just entering the field of organic coatings and need a broad overview or you are an experienced professional who needs a sophisticated reference, you can depend on Organic

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Coatings to give you the information and answers you need.

This book focuses on characterization of organic coatings by different testing methods and understanding of

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structure formation and materials properties. The knowledge of protective organic coatings and current test methods is based largely on empirical experience. This book aims at explaining the coating property changes during

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film drying and curing in terms of chemical and physical transformations. Current test methods are reviewed with emphasis on understanding their physical basis and expressing the test results in terms of

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comparable physical quantities. In general, this book provides readers a deeper understanding of the binder design, coating film formation process, properties build-up, appearance and defect formation, and automotive paint

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application. It also suggests manifold ways to improving the coatings performance. This book is designed for coating professionals to gain deeper understanding of characterization techniques and

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to select the right ones to solve their coating problems. It is ideal for both experienced and early career scientists and engineers. Also, it is useful for graduate students in the general area of protective coatings.

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Metal Finishing Abstracts

NCEL Technical Note

A Summary of 15th-year Shasta
and 10th-year Collbran
Performance

15th Triennial Conference, New
Delhi, 22-26 September 2008

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Through Testing : Proceedings
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