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does CORROSION  
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The cost of corrosion  
differs from country  
to country..Corrosion  
engineering is the  
application of  
principles evolved  
from corrosion  
science to minimize  
or prevent corrosion.

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engineering involves designing of corrosion-prevention schemes and implementation of specific codes and practices. Corrosion may severely affect the functions of metals, plants, and equipment. The chapter also discusses the health

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hazard involved with  
corroded structures.

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definitions, covers  
basic corrosion  
principles as well as  
more advanced  
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the book has a  
definition,  
description,  
mechanism,  
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methods. Case  
histories of failure are  
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End of chapter  
questions are  
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an ideal reference

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water, atmospheric,  
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prevent and control

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of metallic materials

and applications-

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the book are  
presented to help the  
reader to understand  
the corrosion  
fundamental  
principles from  
thermodynamics and

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electrochemical kinetics, the mechanism that triggers the corrosion processes at the metal interface and how to control or inhibit the corrosion rates. The book covers the multidisciplinary nature of corrosion engineering through topics from

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electrochemistry,  
thermodynamics,  
mechanical,  
bioengineering and  
civil engineering.

Addresses the  
corrosion theory,  
passivity, material  
selections and

designs Covers  
extensively the  
corrosion

engineering  
protection strategies



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solved problems,  
diagrams, case  
studies and end of  
chapter problems  
Could be used as a  
text in  
advanced/graduate  
corrosion courses as  
well self-study  
reference for  
corrosion engineers

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This textbook is intended for a one-semester course in corrosion science at the graduate or advanced undergraduate level. The approach is that of a physical chemist or materials scientist, and the text is geared toward students of chemistry, materials

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science, and  
engineering. This  
textbook should also  
be useful to  
practicing corrosion  
engineers or  
materials engineers  
who wish to enhance  
their understanding  
of the fundamental  
principles of  
corrosion science. It is  
assumed that the  
student or reader

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does not have a background in electrochemistry. However, the student or reader should have taken at least an undergraduate course in materials science or physical chemistry. More material is presented in the textbook than can be covered in a one-semester course,

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so the book is intended for both the classroom and as a source book for further use. This book grew out of classroom lectures which the author presented between 1982 and the present while a professorial lecturer at George Washington University,

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Washington, DC,  
where he organized  
and taught a  
graduate course on  
“ Environmental  
Effects on  
Materials. ”

Additional material  
has been provided by  
over 30 years of  
experience in  
corrosion research,  
largely at the Naval  
Research Laboratory,

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Washington, DC and  
also at the Bethlehem  
Steel Company,  
Bethlehem, PA and as  
a Robert A. Welch  
Postdoctoral Fellow  
at the University of  
Texas. The text  
emphasizes basic  
principles of  
corrosion science  
which underpin  
extensions to  
practice.

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The threat from the degradation of materials in the engineered products that drive our economy, keep our citizenry healthy, and keep us safe from terrorism and belligerent threats has been well documented over the years. And yet little



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effort appears to have been made to apply the nation's engineering community to developing a better understanding of corrosion and the mitigation of its effects. The engineering workforce must have a solid understanding of the physical and

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Chemical bases of corrosion, as well as an understanding of the engineering issues surrounding corrosion and corrosion abatement.

Nonetheless, corrosion engineering is not a required course in the curriculum of most bachelor degree programs in

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MSE and related engineering fields, and in many programs, the subject is not even available.

As a result, most bachelor-level graduates of materials- and design-related programs have an inadequate background in corrosion engineering

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principles and practices. To combat this problem, the book makes a number of short- and long-term recommendations to industry and government agencies, educational institutions, and communities to increase education and awareness, and

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Corrosion ultimately give the incoming workforce the knowledge they need.

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Corrosion due to water is one of the most significant and complex causes of damage to metallic products. Written from the viewpoint of physical chemistry, this authoritative and

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with the aqueous  
corrosion of metals.

Available for the first  
time in English,

Corrosion of Metal  
addressing  
engineers,

metallurgists,  
physicists and

chemists. This self-  
contained, valuable  
reference

comprehensively

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Organizes and makes readily accessible the accumulated wealth of fundamental and applied knowledge. The concentration is on the underlying essentials of corrosion and failure, and the material is consistently presented in relation to practical applications to

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Corrosion protection.

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introducing the  
physicochemical

principles are ideal

for students. The

following chapters

provide an overview

of the state of

research for those

familiar with the

fundamentals. An

exhaustive

bibliography and



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appendices conclude  
the volume.

For a senior/graduate-  
level course in  
corrosion.

Comprehensive in  
approach, this text  
explores the scientific  
principles and  
methods that  
underlie the cause,  
detection,  
measurement, and

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Corrosion  
prevention of many  
metal corrosion  
problems in  
engineering practice.

Most chapters  
progress from  
qualitative,  
descriptive sections  
(including methods  
of prevention and  
testing), to more  
quantitative sections  
(involving metallurgy  
and

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electrochemistry),  
and finally to sections  
on current research  
developments in the  
chapter topic."

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approach to scientific  
principles and  
methods that  
underlie the cause,  
detection,  
measurement and  
prevention of many

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metal corrosion  
problems  
engineering  
practices.

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Corrosion costs  
billions of dollars to  
each and every single  
economy in the  
world. Corrosion is a  
chemical process,  
and it is crucial to  
understand the  
dynamics from a

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Chemical perspective  
before proceeding  
with analyses,  
designs and solutions  
from an engineering  
aspect. The opposite  
is also true in the  
sense that scientists  
should take into  
consideration the  
contemporary  
aspects of the issue  
as it relates to the  
daily life before

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proceeding with  
specifically designed  
theoretical solutions.  
Corrosion

Engineering is  
advised to both  
theoreticians and  
practitioners of  
corrosion alike.

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Corrosion  
engineering is a joint  
discipline associated  
primarily with major  
engineering sciences

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engineering, mining  
engineering among  
others and major  
fundamental sciences  
such as sub-  
disciplines of

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physical, inorganic  
and analytical  
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physics and biology,  
such as

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surface chemistry,  
surface physics,  
solution chemistry,  
solid state chemistry  
and solid state

physics,  
microbiology, and  
others. Corrosion



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Engineering is a must-have reference book for the engineer in the field that covers the corrosion process with its contemporary aspects with respect to both of its scientific and engineering aspects. It is also a valuable textbook that could be used in an

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corrosion at the  
university level.

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