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*Understanding Corrosion and How to
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Corrosion protection -

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*nanomaterials. [Viswanathan S Saji;
Ronald Cook, Dr.]; -- "Corrosion is an
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problem in many industries. The
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*Cathodic protection (CP) is a
technique to control the corrosion of a*

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*metal surface by making that surface
the cathode of an electrochemical cell.*

*Cathodic protection systems are most
commonly used to protect steel
pipelines and tanks; steel pier piles ,
ships, and offshore oil platforms .*

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*5.5 Corrosion resistance of
electrodeposited nanomaterials 113*

5.6 Conclusions 118 5.7

Acknowledgments 118 5.8 References

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*118 Part II The use of nanomaterials in
corrosion control 127 6 Moderate
temperature oxidation protection using
nanocrystalline structures 129 R. K.
SINGH RAMAN, Monash University,
Australia and P. SINGH,*

CORROSION CONTROL Methods of

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combating corrosion ...

Active corrosion protection The aim of active corrosion protection is to influence the reactions which proceed during corrosion, it being possible to control not only the package contents and the corrosive agent but also the reaction itself in such a manner that

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*(PDF) Corrosion Protection and
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Major end-use industries for corrosion inhibitors are petroleum refining, oil and gas exploration, chemical production and water treatment facilities. The benefit of corrosion inhibitors is that they can be applied in-situ to metals as a corrective action to counter unexpected corrosion.

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CORROSION CONTROL *Methods of
combating corrosion (protection of
metals against corrosion) The
following methods are used to protect
metals against corrosion: I. Selection*

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*of the right material of construction II.
Surface coating. III. Inhibitors IV.
Proper equipment design V. Electrical
protection I. Selection of the right
material of construction*

*Classification of corrosion protection
methods*

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Cost effective corrosion protection of structural steelwork should present little difficulty for common applications and environments if the factors that affect durability are recognised at the outset. There are many steel structures that have continued in use satisfactorily for many years even in

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adverse conditions.

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Cathodic protection - Wikipedia

Corrosion Protection and Control 03

Using Nanomaterials (Woodhead

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Surface Engineering) - Kindle edition

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Corrosion - Wikipedia
Cathodic protection (CP) is a technique used to control the corrosion of a metal surface by making it the cathode of an electrochemical cell. A simple method of protection connects the metal to be protected to a more easily corroded "sacrificial metal" to

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*act as the anode. The sacrificial metal
then corrodes instead of the protected
metal.*

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ScienceDirect Topics*

*This corrosion prevention method
involves dipping steel into molten zinc.*

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The iron in the steel reacts with the zinc to create a tightly-bonded alloy coating which serves as protection.

The process has been around for more than 250 years and has been used for corrosion protection of things like artistic sculptures and playground equipment.

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*By using suitable current-generating
equipment and controls, it is possible*

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to reproduce a current equal in strength to the corroding current, but flowing in the opposite direction. This type of protection is generally limited to pipelines, buried tanks, etc., and requires careful engineering and layout.

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Surfacing Engineering By
Kung-Chin Chang, Jui-Ming Yeh, in
Intelligent Coatings for Corrosion
Control, 2015. 16.4.1 EAP-based
coatings. Corrosion protection using
EAPs was first suggested by
MacDiarmid in 1985. 33 EAPs can be

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synthesized both chemically and electrochemically. It has been observed that most EAPs can be electrochemically produced by anodic oxidation, enabling one to obtain a conducting film directly on ...

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