

# External Corrosion— Introduction to Chemistry and Control

MANUAL OF WATER SUPPLY PRACTICES

**M27**



*Revised Edition*



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**External Corrosion Introduction to Chemistry and Control** AWWA Staff, 2013-04-19 This manual of water supply practices explains the causes and prevention of external pipe corrosion Third Edition **External Corrosion** American Water Works Association, 2004 The basics are explained along with how to institute a corrosion control program This book explains how to evaluate the potential for damage by studying soil content pipe material and other variables Includes information on installing and protecting distribution system pipe Caractéristiques sociales des secteurs scolaires ,

*External Corrosion Control for Infrastructure Sustainability* American Water Works Association, 2013 This manual of water supply practices explains the causes and prevention of external pipe corrosion *Internal Corrosion Control in Water Distribution Systems* AWWA Staff, 2011 External Corrosion Control for Infrastructure Sustainability , 2013 **External Corrosion and Corrosion Control of Buried Water Mains** Andrew E. Romer, 2004 Water utilities often do not know the specific cause of external corrosion observed on their water mains and consequently the chosen preventative measure may not work effectively Historically these choices are based on data from other industries e g gas and oil and may not be suitable for the water industry Corrosion of metallic pipes can be caused by a variety of mechanisms each of which requires a different solution Determining which corrosion mechanism is at work is not a simple matter because the resulting pipe damage looks similar for all of them The failure to properly identify corrosion sources may produce prevention systems that are ineffective or do not last For example it is not effective to install an anode bag on a main that has a bacteriological corrosion problem Similarly an anode bag installed to reduce corrosion caused by a stray impressed current would be quickly used up and would provide only short term protection Much recent research on corrosion has focused on internal corrosion primarily related to water quality issues such as lead and copper control and red water This project will examine external corrosion which affects the structural integrity of the pipe and makes it vulnerable to leaks and breakage After identifying the causes of external corrosion the study will find economical solutions for each type of corrosion and verify them through field trials Corrosion Control for Buried Water Mains Andrew E. Romer, Bayard E. Bosserman, Graham E. C. Bell, 2009 gives distribution operators and engineers all the information needed in the field for protecting water mains from both exterior and interior corrosion This handy pocket guide describes the soil types environmental conditions and electrochemical processes that cause external corrosion of metal pipes as well as how to protect pipe with coatings polyethylene wraps electric current cathodic protection and good installation practices The guide also describes the causes of internal pipe corrosion and protective measures such as linings water treatment chemistry and good installation practices **Internal Corrosion Control in Water Distribution Systems** AWWA (American Water Works Association), Abigail F. Cantor, 2011 This AWWA manual of practice provides information on the factors that influence pipe corrosion assessing corrosion related impacts water quality and implementation and maintenance of an effective corrosion control program

*M58--internal Corrosion Control in Water Distribution Systems* Richard E. Giani, American Water Works Association, 2017  
This manual provides an explanation of the factors that influence corrosion assesses corrosion related impacts and discusses the development of a strategy to implement and maintain effective corrosion control in the water distribution system

Corrosion and Corrosion Control Herbert Henry Uhlig, 1971      **Introduction to Corrosion Science** Edward McCafferty, 2011-03-22

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