

1. Record Nr.	UNINA9910317730003321
Autore	M. Aliofkhazraei
Titolo	Developments in Corrosion Protection // edited by Mahmood Aliofkhazraei
Pubbl/distr/stampa	IntechOpen, 2014 Croatia : , : IntechOpen, , 2014
ISBN	953-51-6359-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (710 pages)
Disciplina	620.11223
Soggetti	Corrosion and anti-corrosives
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	One of the first thing that comes to your mind after hearing the term "corrosion" is corrosion of a metal. Corrosion is a basically harmful phenomenon, but it can be useful in some cases. For instance, environment's pollution with corrosion products and damage to the performance of a system are among its harmful effects, whereas electric energy generation in a battery and cathodic protection of many structures are among its advantages. However, these advantages are almost nothing as compared to the costs and effects imposed by its detrimental influences. The enormous costs of this phenomenon can be better understand through studying the published statistics on direct and indirect corrosion damages on economy of governments. The direct cost of corrosion is near 3 % of the gross domestic product (GDP) of USA. Considering this huge cost, it is necessary to develop and expand the corrosion science and its protection technologies.