



Atmospheric Corrosion

Christofer Leygraf, Thomas Graedel, Christopher Leygraf

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A new scientific focus on the corrosion process and its amelioration While atmospheric corrosion has been studied by engineers for nearly a century, a systematic scientific investigation of this vital field has become possible only in recent years. In this timely and authoritative work, Christofer Leygraf and Thomas Graedel present a comprehensive look at atmospheric corrosion six thousand years after "iron was first separated from its ore . and promptly began to corrode!" Combining expertise in corrosion science and atmospheric chemistry, Leygraf and Graedel describe corrosion's potentially devastating effects on structures and materials, examine the latest scientific tools available for preventing or minimizing corrosion damage, and emphasize new insights obtained over the last decade through controlled studies as well as computer modeling investigations. Key topics include:

- * Basic principles of atmospheric corrosion chemistry
- * Corrosion mechanisms in controlled and uncontrolled environments
- * Degradation of materials in architectural and structural applications, electronic devices, and cultural artifacts
- * Protecting existing materials and choosing new ones that resist corrosion
- * Predicting how and where atmospheric corrosion may evolve in the future

Complete with appendices discussing experimental techniques, computer models, and the degradation of specific metals, Atmospheric Corrosion is an invaluable resource for corrosion scientists, corrosion engineers, conservators, environmental scientists, and anyone interested in the theory and application of this evolving field.

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