

Corrosion by Carbon and Nitrogen: Metal Dusting, Carburisation and Nitridation (European Federation of Corrosion (EFC) Series)

By H Grabke, M Schütze

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Metal dusting is a form of corrosion involving the disintegration of metals and alloys into a dust of graphite and metal particles when exposed to a carburizing atmosphere. This important book reviews the factors affecting metal dusting and how it can be prevented in sectors such as the chemical and petrochemical industries and in the direct reduction of iron ores. It also considers the related corrosion phenomena of carburization and nitridation.

After an introductory chapter setting out the key processes involved in metal dusting, the book reviews how this corrosion process affects a range of metals such as iron and steel, as well as nickel-based and chromium-based high-temperature alloys. There are chapters on the effects of particular gas mixtures on the corrosion process and on the use of coatings to prevent metal dusting. Processes involved in carburization and nitridation are also described and discussed.

With its distinguished editors and team of contributors, Corrosion by carbon and nitrogen is a valuable reference for all those concerned with understanding and preventing these corrosion processes in various industries.

- Reviews this corrosion process and how it affects the petrochemical and other industries
- Discusses the effect of particular gas mixtures on the corrosion process

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Editorial Review

Review
…well written and provides initial knowledge of metal dusting., Materials World

About the Author
Professor Dr H. C. Hans Grabke is former Head of the Department of Physical Chemistry at the Max Planck Institut für Eisenforschung in Dusseldorf, Germany.

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