

Contents

List of Contributors VII

Preface IX

How to use the Corrosion Handbook XI

Carbonic Acid 1

Author: L. Hasenberg/Editor: R. Bender

A Metallic materials 17

Aluminium and aluminium alloys, copper and copper alloys, iron, iron-based alloys and steels, nickel and nickel alloys, titanium and titanium alloys, zinc cadmium and their alloys

B Non-metallic inorganic materials 101

Carbon and graphite, binders for building materials, glass, quartz ware and quartz glass, enamel, oxide ceramic materials, metal ceramic materials

C Organic materials/plastics 109

Thermoplastics, thermosetting plastics, elastomers, duroplasts

D Materials with special properties 114

Coatings and linings, seals and packings, composite materials

Bibliography 117

Chlorine Dioxide 131

Author: L. Hasenberg/Editor: R. Bender

A Metallic materials 148

Aluminium and aluminium alloys, copper and copper alloys, iron, iron-based alloys and steels, nickel and nickel alloys, titanium and titanium alloys, zinc, cadmium and their alloys

B Non-metallic inorganic materials 211

Carbon and graphite, binders for building materials, glass, quartz ware and quartz glass, enamel, oxide ceramic materials, metal ceramic materials

C Organic materials/plastics 215

Thermoplastics, thermosetting plastics, elastomers, duroplasts

D Materials with special properties 232

Coatings and linings, seals and packings, composite materials

E Materials recommendations 239

Bibliography 242

Seawater 257

Author: P. Drodten/Editor: R. Bender

A Metallic materials 333

Aluminium and aluminium alloys, copper and copper alloys, iron, iron-based alloys and steels, nickel and nickel alloys, titanium and titanium alloys, zinc, cadmium and their alloys

B Non-metallic inorganic materials 485

Carbon and graphite, binders for building materials, glass, quartz ware and quartz glass, enamel, oxide ceramic materials, metal ceramic materials

C Organic materials/plastics 489

Thermoplastics, thermosetting plastics, elastomers, duroplasts

D Materials with special properties 500

Coatings and linings, seals and packings, composite materials

E Materials recommendations 524

Bibliography 529

Key to materials compositions 569

Index of materials 601

Subject index 620