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General Hot-Dip Galvanizing

By Dr. Wolf-Dieter Schulz and Dr. Marc Thiele.

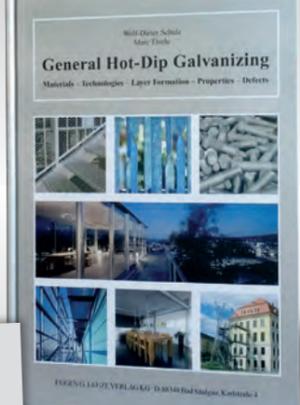
1st edition 2011 containing 95 illustrations and 25 tables – Language: English

Materials – Technologies – Layer Formation – Properties – Defects

Hot-dip galvanizing of steel is one of the most important methods of corrosion protection under almost all load classes. This book provides a complete overview of the mechanisms of coating formation and the reactions that take place during this process. This results in the properties of the layers and the possible defects and failures. The two authors have long been active in the research and development of hot-dip galvanizing as well as in the

processing of damage cases and are thus predestined to explain the interrelationships of coating by hot-dip galvanizing. These efforts are supported by a large number of high-quality photographs and analyses of the zinc coatings. The book is a great help to the practitioner in his daily work and in dealing with the wishes and demands of the customers.

Price: € 65,-
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Chromium Plating

By G.A. Lausmann, 1st edition 2007, 360 pages with 152 figures and 90 tables
Language: English

Literature about chromium plating hardly exists in English language. Therefore the second edition of the German book about electrolytic deposited chromium has been translated and updated with actual publications and facts.

Chromium is at the moment under fire because it is deposited out of hexavalent chromium solutions. But users of chromium plated parts are only getting in contact with metallic chromium. Plating supply houses and manufactures of chromium compounds apply methods for safe handling of the respective compounds. The transport of chromium compounds is handled in returnable containers and therefore avoids contact of workers with chromic acid. Closed loop systems in plating plants avoid

waste. Ventilation systems combined with fume scrubbers ensure perfect working conditions and eliminate pollution in the environment. Stable fume suppressions are available to reduce drag out and spray losses.

Chromium as metal resists most chemicals, is shiny, has a high hardness and many other properties which can't be provided by any other metal. This book should help to apply chromium in a safe way and shows solutions to grant REACH requirements.

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Electropolishing

By Dr.-Ing. Dr. rer. nat. Magnus Buhlert, 1st edition 2015 with 111 pictures and 3 tables, 144 pages, volume 41 of the publication series Galvanotechnik – Language: English

Smooth and bright shining metal surfaces can be made by electropolishing. The manufacturing procedure can be described as anodic, electrolytic or electrochemical removal process with outer power supply.

The book is based on research on the process over many years. Base of the book are several own publications on electropolishing an electrochemical removal as well. It is based on the german version of this book. It was rewritten. News findings were added. The author describes electropolishing techniques for many metals and their alloys. They can be transferred to comparable alloys and materials, but a newer optimization of the process parameters will be necessary most of the time. In this book one

will find what the author together with others carried out with experiments and what can be found in the newer literature on the matter.

After a short look on the manufacturing process and the general relations of process parameters and manufacturing result the influence of the main parameters of the process are discussed. Different possible manufacturing steps and their benefits are discussed. Further different electrolytes for different metals respectively alloys can be found. At least some manufacturing results for some combinations of metals and alloys are given. Naturally only a part of this topic can be presented, but a closer insight into this matter will be given.

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Pulse Plating

By Wolfgang E. G. Hansal, Sudipta Roy. 1st edition containing 176 Illustrations and 25 Tables
Language: English

Surface Technology and in particular, Electroplating, is a key, cross-the-board discipline without which the entire range of today's manufactured products would not exist. In the realm of Electroplating, the use of pulsed deposition currents, known as "Pulse Plating" allows the production of a wider range of coating layers than those possible using DC.

This volume, edited by two leading authorities in the field, presents the state-of-art knowledge of the science and the associated technology and equipment. Building on what was hitherto the standard work on the subject, written in the 1990's, the current understanding of the basic principles is presented together with the full range of processes

now available, within its 400 pages, in the English language. Significant developments within the field of Pulse Plating both from aqueous solutions and ionic liquids include the deposition of binary and ternary alloys, composite coatings, compositionally-graded coatings and multilayer coatings. Also described are nanocrystalline deposits and selective plating which is widely used in electronics manufacture and in high-rate deposition processes for coating semiconductors. The technology is also used in anodic processes.

Following a forward-looking but also critical introductory chapter, the book falls into four sections covering all the basic principles and significant industrial applications of the technology.

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The Parthian Battery

Electric Current 2,000 Years Ago? The History of Surface Finishing by Prof. Dr.-Ing. Dr. habil. Nasser Kanani. 1st edition 2004 with 95 pages – Language: English

The first identification of circumstances producing current electricity was made in 1791/92 by the Italian scientist Luigi Galvani. It was the outgrowth of an accidental and commonplace observation. His work was instrumental in leading his fellow countryman Alessandro Volta to the invention of the first electric battery, known as "Voltaic pile", which worked as a source of constant current electricity. So Galvani provided the major stimulus for Volta to build a source of electricity with its principles of operation combined from chemistry and physics. Volta's invention was truly an important scientific discovery, because it was the first method found for the generation of a sustained electric current. Today's use of electricity as a powerful

form of energy is based on the studies and inventions of these two scientists. Their discoveries in the 18th century led to the subsequent age of electric power whose application has transformed our civilization.

Until 1938, according to all texts on history of science the electric battery was invented in 1800 by Volta. The discovery of a little jar in 1936 near Baghdad suggested, however, that Volta might not have invented the battery, but reinvented it. The jar found together with some other peculiar objects was first described by Wilhelm König in 1938, who put forward the daring idea that the find could be a kind of galvanic element. The present book tells the story of König's discovery.

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JEPT Journal of Electrochemistry and Plating Technology

Online journal aimed at researchers and developers of the electroplating and electrochemical industry as well as at interested users – Language: English

We are happy to present you the Journal of Electrochemistry and Plating Technology. The decision to set up this journal was not easy to make. A number of scientific journals are currently available in the field of academic research. Another type of journal like the Galvanotechnik covers the area of application. Therefore, the question arises: Is there any need for another journal?

The reason why we decided YES is based on the fact that the target group of academic journals is different from that of the application type. Academic journals are commonly cited while the application journals are usually not. This leads to the fact that most of the articles that describe the long term develop-

ment of easily available to industry researchers. On the other hand the industrial application discussed in the Galvanotechnik is seldom read by the academic community. We like to overcome this gap with the reviewed journal by realising a close relation to the Galvanotechnik on the one hand side and to the academic community by the scientific editorial board on the other hand.

The constitution of the editorial board based on the Working Group Research and scientific development of the DGO builds the desired link. The content of this journal should cover the recent development in surface science but should concentrate on plating



Price: € 170,-
per year including VAT.

technology and electrochemical basics. This of course indicates a discussion of technologies that are suitable to compete with the plating technologies. Therefore, a number of articles present the current development in amenatory techniques.

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Business directory in electroplating technology

16th edition 2019/2020 with 720 pages, a reference book for galvanic companies and users of galvanic coatings – Language: German, English, Français

In the text part: Detailed descriptions of the most important galvanic processes with special regard to troubleshooting, error avoidance and troubleshooting. Guide to the application of electroplated coatings (properties, functional and decorative coatings, design and manufacture suitable for electroplating), current information on electroplating technology (standards, technical books, training)

In the purchasing consultant: Supply and service directory (suppliers, contract electroplating shops), address book, English Index – Index français

The reference book is intended for electroplating technicians and managers in electroplating plants as well as in metalworking and manufacturing companies where electroplating coatings are used. In the latter section, the main focus is on plant managers, technicians, designers, technologists, planners, inspectors and purchasers. While the text section provides technical information, the purchasing consultant for galvanic plants provides an overview of suppliers of equipment, chemicals, auxiliaries, waste disposal and consulting services, while users are provided with the range of services offered by more than 350 galvanic contractors.

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