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Excellent teaching and resource material . . . it is concise, coherently structured, and easy to read . . . highly recommended for students, engineers, and researchers in all related fields." -Corrosion

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on the First Edition of Fundamentals of Electrochemical Deposition From computer hardware to automobiles, medical diagnostics to aerospace, electrochemical deposition plays a crucial role in an array of key industries. Fundamentals of Electrochemical Deposition, Second Edition is a comprehensive introduction to one of today's most exciting and rapidly evolving fields of practical knowledge. The most authoritative introduction to the field so far, the book presents detailed coverage of the full range of electrochemical deposition processes and technologies, including: *

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This new edition updates the prior edition to address the new developments in the science and its applications, with new chapters on innovative applications of electrochemical deposition in semiconductor technology, magnetism and microelectronics, and medical instrumentation. Added coverage includes such topics as binding energy, nanoclusters, atomic force, and scanning tunneling microscopy. Example problems at the end of chapters and other features clarify and improve understanding of the material. Written by an author team with extensive experience in both industry and academe, this reference and text provides a well-rounded introduction to the field for students, as well as a means for professional chemists, engineers, and technicians to expand and sharpen their skills in using the technology.

Seven years have passed since the publication of the previous edition of this book. During that time, sensor technologies have

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made a remarkable leap forward. The sensitivity of the sensors became higher, the dimensions became smaller, the selectivity became better, and the prices became lower. What have not changed are the fundamental principles of the sensor design. They are still governed by the laws of Nature. Arguably one of the greatest geniuses who ever lived, Leonardo Da Vinci, had his own peculiar way of praying. He was saying, "Oh Lord, thanks for Thou do not violate your own laws." It is comforting indeed that the laws of Nature do not change as time goes by; it is just our appreciation of them that is being refined. Thus, this new edition examines the same good old laws of Nature that are employed in the designs of various sensors. This has not changed much since the previous edition. Yet, the sections that describe the practical designs are revised substantially. Recent ideas and developments have been added, and less important and nonessential designs were dropped. Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-electro-mechanical systems and micro-electro-opto-mechanical systems). These are examined in this new edition with greater detail. This book is about devices commonly called sensors. The invention of a microprocessor has brought highly sophisticated instruments into our everyday lives.

Electroplating: Basic Principles, Processes and Practice offers an understanding of the theoretical background to electroplating, which is essential if the practical results are to be as required. This book is different in that it explains HOW the electrodeposition processes work, covering such topics as the electrodeposition of composites, multilayers, whisker formation and giant magnetoresistive effects. The section on R & D approaches will be especially useful for organisations in the field. This is the first English language version of a well-known German language book from a prestigious author of international repute. 'Electroplating' is an invaluable resource for manufacturers of coatings, electrochemists, metal finishers and their

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customers and academics in surface engineering. · Offers an understanding of the theoretical background to electroplating · Explains how the electrodeposition processes work · Prestigious author of international repute

As an instructor in various finishing courses, I have frequently made the statement over the years that "In the field of metal finishing there is very little black and white, just a great deal of grey. It is the purpose of the instructor to familiarize the student with the beacons that will guide him through this fog." To a very considerable extent, a handbook such as this serves a similar purpose. It is also subject to similar limitations. Providing all the required information would result in a multi-volume encyclopedia rather than a usable handbook. In the pages that follow, you will therefore find frequent references to other sources where more detailed explanations or information can be found. The present goal is proper guidance and the provision of the most frequently required facts, not everything that is available. In the 13 years since the last edition, changes in the finishing industry have been profound but in one sense have resulted in simplifying matters rather than complicating them. Because technology has advanced to a level of complexity rendering "home brew" impractical in many cases, dependence on proprietary compounds has become common. Therefore, detailed solution compositions are often no longer significant or even practical. It is thus more important to provide instruction about the factors that affect the choice of the most suitable type of proprietary material.

From his decision to leave school at fifteen to roam the world, to his recollections of life as a hobo on the Southern Pacific Railroad, as a cattle skinner in Texas, as a merchant seaman in Singapore and the West Indies, and as an itinerant bare-knuckled prizefighter across

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Workshop Processes, Practices and Materials is an ideal introduction to workshop processes, practices and materials for entry-level engineers and workshop technicians. With detailed illustrations throughout and simple, clear language, this is a practical introduction to what can be a very complex subject. It has been significantly updated and revised to include new material on adhesives, protective coatings, plastics and current Health and Safety legislation. It covers all the standard topics, including safe practices, measuring equipment, hand and machine tools, materials and joining methods, making it an indispensable handbook for use both in class and the workshop. Its broad coverage makes it a useful reference book for many different courses worldwide.

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