



# Electroless copper and nickel–phosphorus plating

Processing, characterisation  
and modelling

W. Sha, X. Wu and K. G. Keong

# Electroless Copper And Nickel Phosphorus Plating Processing Characterisation And Modelling

**Eric M. McCallig**



## **Electroless Copper And Nickel Phosphorus Plating Processing Characterisation And Modelling:**

Electroless Copper and Nickel-Phosphorus Plating W Sha,Xiaomin Wu,K G Keong,2011-01-01 Unlike electroplating electroless plating allows uniform deposits of coating materials over all surfaces regardless of size shape and electrical conductivity Electroless copper and nickel phosphorus deposits provide protective and functional coatings in industries as diverse as electronics automotive aerospace and chemical engineering This book discusses the latest research in electroless depositions After an introductory chapter part one focuses on electroless copper depositions reviewing such areas as surface morphology and residual stress modelling surface structure adhesion strength of electroless copper deposit electrical resistivity and applications of electroless copper deposits Part two goes on to look at electroless nickel phosphorus depositions with chapters on the crystallisation of nickel phosphorus deposits modelling the thermodynamics and kinetics of crystallisation of nickel phosphorus deposits artificial neural network ANN modelling of crystallisation temperatures hardness evolution of nickel phosphorus deposits and applications of electroless nickel phosphorus plating Written by leading experts in the field Electroless copper and nickel phosphorus plating Processing characterisation and modelling is an invaluable guide for researchers studying electroless deposits or materials science as well as for those working in the chemical oil and gas automotive electronics and aerospace industries Written by leading experts in the field this important book reviews the deposition process and the key properties of electroless copper and nickel phosphorus deposits as well as their practical applications Chapters review areas such as surface morphology and residual stress modelling surface structure crystallisation of nickel phosphorus deposits and hardness evolution An invaluable guide for researchers studying electroless deposits or materials science as well as for those working in the chemical oil and gas automotive electronics and aerospace industries

Thermal Barrier Coatings ,2011-01-14 Effective coatings are essential to counteract the effects of corrosion and degradation of exposed materials in high temperature environments such as gas turbine engines Thermal barrier coatings reviews the latest advances in processing and performance of thermal barrier coatings as well as their failure mechanisms Part one reviews the materials and structures of thermal barrier coatings Chapters cover both metallic and ceramic coating materials as well as nanostructured coatings Part two covers established and advanced processing and spraying techniques with chapters on the latest advances in plasma spraying and plasma vapour deposition as well as detonation gun spraying Part three discusses the performance and failure of thermal barrier coatings including oxidation and hot corrosion non destructive evaluation and new materials technologies and processes With its distinguished editors and international team of contributors Thermal barrier coatings is an essential reference for professional engineers in such industries as energy production aerospace and chemical engineering as well as academic researchers in materials Reviews the latest advances in processing and performance of thermal barrier coatings as well as their failure mechanisms Explores the materials and structures of thermal barrier coatings incorporating cover both metallic and ceramic coating materials as

well as nanostructured coating. Assesses established and advanced processing and spraying techniques including plasma vapour deposition and detonation gun spraying. *Comprehensive Materials Finishing* M.S.J. Hashmi, 2016-08-29. Finish Manufacturing Processes are those final stage processing techniques which are deployed to bring a product to readiness for marketing and putting in service. Over recent decades a number of finish manufacturing processes have been newly developed by researchers and technologists. Many of these developments have been reported and illustrated in existing literature in a piecemeal manner or in relation only to specific applications. For the first time *Comprehensive Materials Finishing Three Volume Set* integrates a wide body of this knowledge and understanding into a single comprehensive work. Containing a mixture of review articles, case studies and research findings resulting from R Finish Machining Processes by which a small layer of material is removed from the surface by various machining processes to render improved surface characteristics and Surface Coating Processes by which the surface properties are improved by adding fine layers of materials with superior surface characteristics. Each of these primary finishing processes is presented in its own volume for ease of use making *Comprehensive Materials Finishing* an essential reference source for researchers and professionals at all career stages in academia and industry. Provides an interdisciplinary focus allowing readers to become familiar with the broad range of uses for materials finishing. Brings together all known research in materials finishing in a single reference for the first time. Includes case studies that illustrate theory and show how it is applied in practice. *Metals Abstracts*, 1998. *Modelling and Simulation of an Electroless Copper Deposition Process* Madan Mohan Bhawandipak Jagernauth, 1986. *Metals Abstracts Index*, 1995. **Electroless plating** G. O. Mallory, J. B. Hajdu, 1990-01-01. **Symposium on Electroless Nickel Plating** American Society for Testing Materials. Committee B-8 on Electrodeposited Metallic Coatings, 1959. *Crystallization of Electroless Nickel-phosphorus and Electroless Nickel-boron Plating on Copper* Cindy Tien Sze Tay, 2010. **Electroless Nickel Plating: Fundamentals to Applications** Fabienne Delaunois, Veronique Vitry, Luiza Bonin, 2019-10-30. *Electroless Nickel Plating Fundamentals to Applications* provides a complete and actualized view of electroless nickel plating thus greatly improving the accessibility of knowledge on the subject. It touches upon all aspects of electroless nickel from the fundamentals including thermodynamics of electroless plating bath chemistry and substrate preparation to more applied areas of the field such as bath replenishment, composite coatings, post treatments, polyalloys, graded and multilayer coatings, ultrasound assistance applications and properties. Contributed to by a variety of international authors to ensure different points of view and interests are addressed, this book stands as the first complete and updated state of the art text on electroless nickel in the twenty first century. It also serves as the first technical book with a strong emphasis on nickel boron. It also focuses on environmental aspects. Including cutting edge content presented sufficiently extensive to be directly useful to the practitioner, this book is aimed at materials scientists, metallurgists and other professionals working with electroless nickel plating. **Symposium on Electroless Nickel Plating** Symposium on

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**Characterization of Processing Parameters for Electroless Copper and Rhenium Deposition** Eric M. McCallig,1995      *(R) Plating, Electroless Nickel-phosphorus, Co-deposited with Polytetrafluoroethylene (PTFE) ,2021*  
**Symposium on Electroless Nickel Plating** ,1991      *Electroplating of Plastics* Josef Christoph,1977      **Electroless Nickel Plating** ASTM. Section C on Electroless Nickel,      **Surface Kinetics in Electroless Copper Plating** Eric R. Logan,2016

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