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Review Covers Recent Issues of Galvanotechnik, Metalloberfläche, GALVANO, SURFACES & Hyomen Gijutsu

Galvanotechnik

March 1998

Plating & Alternative Processes

- "Zinc Alloy Processes: Properties & Technological Applications," Jiménez, Kerle & Schmidt
- "Non-destructive Characterization of Coatings," N. Meyendorf
- "Fire & Explosion Protection in Metal Finishing, Part 2," J. Vollmers
- "New Developments in Quality Management," G. Keller

Cleaning & Pretreatment

- "Zero-discharge Hot Degreasing," K. Brunn, R. Jansen & P. Prelkschat

Environmental Issues

- "Electrochemical Oxidation of Cyanide-containing Effluents," Z. Parischeva & E. Kanova
- "Dr. Lange AOX Colorimetric Analysis," R. König

Printed Circuits

- "Pretreatment with KMnO_4 in Metallizing of Printed Circuit Board Through-holes, Part 2," L.I. Pindeva, E.D. Dobрева & Ch.B. Petrov
- "ED Resist-SBU (Photovias)," W. Mantel

April 1998

Plating & Alternative Processes

- "Capillary Electrophoresis: A Promising Analytical Technique for Cations & Anions in Electroplating & Electroless Plating Solutions," U. Jegle, M. Serwe & T. Sogo
- "Modern Vibratory Finishing: Approaches to Closing the Materials Loop," B. Göpfert
- "Prevention in Metal Finishing, Part 2," H. Feilke

- "Thermographic Methods for Non-destructive Characterization of Coatings," N. Meyendorf, U. Netzelmann, T. Vetterlein & G. Walle

- "Effect of Cobalt on Hardness & Internal Stress in Heavy Deposits from a Nickel Sulphamate Bath," E. Kranz
- "Fire & Explosion Protection in Metal Finishing, Part 3," J. Vollmers

Cleaning & Pretreatment

- "Chromium-free Pretreatment: A Status Report," I. v. Leersum

Environmental Issues

- "Electrochemical Regeneration Methods in Environment Protection Technology," H. Bergmann & T. Yurchuk

Printed Circuits

- "Printed Circuit Boards for the Future: A Comparison Between Electroless Nickel/Gold & Palladium Surfaces," K. Bünning
- "Options & Limits in Photopatterning," W.G. Hertlein

Metalloberfläche

April 1998

Plating & Alternative Processes

- "Re-equipping a Phosphating System from the Environmental Standpoint," J. Thürk, R. Wittwer, K. Merck, C. Bäßler & K. Fischwasser
- "Production-integrated Electroplating of Rollers," T. Bolch, H. Holeczek, G. Arnosti & K. Müll
- "High-tech Coating in the Watch-making Industry," K. Schindler

Cleaning & Pretreatment

- "Ultra-efficient Cleaning of Switch Housings," I. Rau

Environmental Issues

- "Environmentally Friendly Electroplating," P. Kimmerl & L. Lamparter

Powder Coating & Painting

- "Automation Technology in Powder Coating," V. Wellige
- "Custom-designed Color Changeover Concepts for Powder Coating," R. Mändle
- "New Painting Process for A-Class Cars," R. Kraus
- "On-line Measurement of Paint Thicknesses," H. Petry

May 1998

Plating & Alternative Processes

- "The Prospects for New Ruthenium Coatings," R. Freudenberger
- "Optimization of Plants," G. Fleischer, R. Ackermann, N. Ibald, C. Jäkel & S. Roth
- "PTFE Modified Graphite Anodes," S. Christoskova & R. Mantschewa
- "Parylene Polymer: High-tech Coating for the Future," G. Mordelt & P. Heim
- "In situ Scanning Tunneling Microscopy," M. Dietterle & D.M. Kolb
- "Galvanic Nickel & Nickel Dispersion Layers," B. Wielage, H. Podlesak, S. Steinhäuser & D. Nickelmann
- "Non-destructive Testing," S. Gripp

Powder Coating & Painting

- "Painting Roadmaking Machines," N. Lauter

GALVANO

April 1998 • Issue #684

Editorial

- "The Technology Speaks to Vacuum Deposition"

"At the Hour of Globalization, Parker Becomes Chemetall SA" (interview)

Information Systems

"Measurement & Automatic Systems for Better Control of Production Processes"

"Am I Right to Wait For a Model Before Installing Automatic Controls?"

"Automation & Information in Plating on Plastics," Y. Leroy & E. Blasie

Plating & Alternative Processes

"Analysis of Plating on Plastic Baths (continued)," R. Tournier

"Advantages of Processing by Plasma Spray in the Automotive Industry"

"Electroless Nickel: Toward an Unlimited Bath Life," P. Bottari & F. Robin

Environmental Issues

"An Alternative to Chlorinated Solvents"

SURFACES

April 1998 • Issue #277

Plating & Alternative Processes

"Metallography in Surface Treatment: Copper & Copper Alloys"

"Zincroplex® Black," D. Begue, K.P. Herold & K.E. Elhers

"Control of Rejects," B. LeDoeulf

"Accelerated Life Testing," M. Ludwig

"The Small Centimeters Which Become Big Savings," C. Fayolle

Environmental Issues

"What Will Be the Needed Characteristics of Future Vehicles with Respect to the Environment & Profitability? A Dialogue Between Daimler-Benz & Henkel"

Powder Coating & Painting

"Lacquering from Powder: Application on Automobile Bodies with Recovery & Recycling of the Overspray," A. Eyraud & G. Parjadis

"SMC, Conductive Powder, Powder Coatings on Conductive Plastic Parts for the Auto Body," J. Vidalie & Y. Faure

Hyomen Gijutsu

April 1998 • Vol. 49, No. 4

Plating & Alternative Processes

"Purification & Handling of Molten Salts," Y. Sato

"Surface Modification by Molten Salt Electrochemical Process," Y. Ito & T. Nohira

"Electrodeposition of Refractory Metals in Molten Salts," H. Numata

"Molten Salt Electrolysis for Rebirth of Aluminum Scraps," T. Ishikawa & M. Ueda

"Amorphous Al-Mn Electrodeposition from Chloroaluminate Bath," J. Uchida & K. Hirayama

"Electrodeposition from Room-temperature Molten Salts—Al Coating," S. Takahashi

"Electrodeposition of Alloys from Ambient Temperature Molten Salt," N. Koura, Y. Idemoto & S. Matsumoto

"Corrosion & Corrosion Prevention on Plating Equipment: A Field Study, Part 2," T. Nakamura, F. Matsui & I. Nakayama

"Characterization of Corrosion Products of Zn System Coated Steel Sheets," S. Hashimoto

"GaAs vs. Si," N. Yoshida

"Ultra Water-repellent Films with Controlled Surfaces Fabricated by Microwave Plasma-enhanced Chemical Vapor Deposition," A. Hozumi & O. Takai

"Prevention of Car Air Condition Odor: Rotten Odor Arising from Micro-organism & Its Prevention," H. Mizuno

"Effects of Cr on Polarization Characteristics of Thermal-sprayed WC Cermets Coating," Y. Takatani, T. Tomita, K. Tani, M. Inaba & Y. Harada

"Structure & Magnetic Properties of Co-based Metals Electroless-deposited into Porous Silicon," T. Hosokura, K. Maruyama, I. Ohno & O. Nittono

"Surfactant Influence on Zn-Co-SiO₂ Composite Plating from Sulfate Solutions," M. Hino, N. Nishida, M. Hiramatsu, H. Kuga & T. Kanadani

Environmental Issues

"Pyrochemical Reprocessing for Spent Nuclear Fuel & Dry Separation Process for Radioactive Waste: Separation of Fission Products with Electrorefining in Molten Salt," R. Fujita

Hyomen Gijutsu

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Plating & Alternative Processes

"Technology of Anti-microbial Treatment for Home Appliances & Living Supplies," T. Tomioka

"Antibacterial Metal Surfaces Treatment," M. Kobayashi

"Photo-semiconductor Sterilization by Low-temperature Melt Injection Method," T. Sakurada

"Extension of Electroless Plating Bath Life," Y. Kuboi

"Microscopy of the Surface Structure of Thin Films Using a High-resolution SEM," R. Tamochi

"Al and Ti," K. Ebihara

"Preparation of Functionally Graded Films by Microwave Plasma-enhanced Chemical Vapor Deposition: Silicon Oxide Films Having Water-repellent Surfaces," A. Hozumi, I. Kajita & O. Takai

"Effect of Concentration in Al-Si Alloy Bath on Hot-dipped SUS 304 Stainless Steel Coating Layer Formation," J. Tanaka, K. Ohsasa & T. Narita

"Molten Salt Electrodeposition of Ni Silicide Film & Hot Corrosion Resistance," M. Hara, A. Honma & Y. Sato

"Investigation of Ag & Cu Migration Process Using Quartz Crystal Microbalance," K. Tsuruta, S. Nonaka, H. Tezuka, S. Yoshihara & T. Shirakashi

"TEM & ESCA Observations of Copper Deposits Containing Tin Impurities," T. Yokota, H. Kanako, N. Hanzawa, M. Dobashi & Y. Aoki

"Size of Dispersed TiO₂ Particles & their Codeposition," F. Yamaguchi, N. Koura, H. Negishi & Y. Idemoto

Quality Control Issues

"International Standards for Environmental Management: ISO 14000 Series," H. Kuwayama

"The Present Situation & Trend of the Acquisition of ISO 14001 Certification in the Electric & Electronic Industries of Japan," O. Mizuno

"Trends & Situations of ISO 14001 Certification for Automotive Manufacturers," K. Hoshina

"Acquisition of ISO 14000 Series Certification," M. Kamitani, H. Kawanishi, T. Kiyokawa, H. Kuwayama, K. Hoshina, O. Mizuno & R. Yamazaki

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