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Heat treating and surface engineering: proceedings of the 22nd Heat Treating Society Conference and the 2nd International Surface Engineering Congress, 15-17 September, 2003, Indianapolis, Indiana, USA

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Abstrak

Contents :

- A Heat Treatment Information Tool for the Internet
- Proper Selection of Annealing Atmospheres for Electrical Steels
- An Introduction to Atmosphere Furnace Safety
- Temperature Influence on the Flammability Limits of Heat Treating Atmospheres
- Furnace Control Systems and Components to Improve Throughput and Reduce Cost
- Process Characterization of Furnace Brazing Through Statistically Designed Computer Simulations*
- New Method of Heat Treatment Using the Wave Technology
- State of the Art Integrated Heat Treatment Cell for Today's Manufacturing Environment
- Why Use Composite Radiant Tubes?
- The Heat Treating Global Challenge Heat Treatment Technology Today and for Future
- The Top Ten Ways To Keep Your New or Used Carburizing and Hardening Equipment Operating at Maximum Performance and Efficiency
- Determining and Improving the Uncertainty of Rockwell Hardness Tests
- A new method of reducing NOx emissions from Heat Treatment Furnaces
- Taking Control of Your Combustion System
- 22ND ASM Heat Treat Conference 2003 George Pfaffmann Honorary
- Symposium: Induction Heat Treating, What Is Important to Remember
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- Induction as a Source of Heat
- Finite Element Analysis of Induction Hardening Process of Steel
- Using Numerical Simulations to Determine the Effect of External Fluid Flow on Heat Transfer Rates in Heat Treating Operations
- Process Monitoring to Reduce/Eliminate Destructive Testing in Induction Heat Treating.
- A Computer Aided Heat Treatment Planning System
- Optimization of an Aluminum Alloy Quenching Process in Polyalkylene Glycol Polymer Solution using Taguchi Method

- Chemistry of Quenching Part I Fundamental Interfacial Chemical Processes Involved in Quenching
- Critical Heat-Flux Densities, Quenching Intensity and Heat Extraction Dynamics During Quenching in Vaporizable Liquids
- Chemistry of Quenching Part 2– Fundamental Thermophysical Processes Involved in Quenching
- Application of Intensive Quenching Processes for Carburized Parts
- Quench Rate Effects on the Natural Aging Behavior of 7XXX Al-Mg-Zn-Cu Aluminum Alloys
- The QuenchMiner[™] Expert System for Quenching and Distortion Control
- Effect of Quenching Variables on Distortion and Residual Stresses
- Influence of Test Conditions on the Cooling Curve Response of Polymer Quenchants (Tensi Agitation Device)
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- Advances in Quenching- A Discussion of Present and Future Technologies
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- Status of Chromate Metal Pretreatment Replacement Research at the University of Cincinnati
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- Effect of Superficially applied Oxides on the Hot Corrosion behaviour of Feand Nibase Superalloys in Na2SO4-60%V2O5
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- Electrodeposition and structural investigation of Antimony Telluride phases
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