Preface
Organizing Committee
Application of Alloy 718 in GE Aircraft Engines: Past, Present and Next Five Years

Alloy 718 at Pratt and Whitney - Historical Perspective and Future Challenges
Alloy 706 Use, Process Optimization, and Future Directions for GE Gas Turbine Rotor Materials
Alloy 625 - Impressive Past/Significant Presence/Awesome Future
Use of Alloy 718 and 725 in Oil and Gas Industry
Large Diameter 718 Ingots for Land-Based Gas Turbines
Making of Alloy 706 Ingot for Gas Turbine Parts
Solidification and Precipitation in IN718
Current Paths During Vacuum Arc Remelting of Alloy 718
Advances in the Solidification of IN718 and RSS Alloys
Freckles in Remelted Niobium Containing Superalloys
Effect of Cooling Rate on Microstructural Development in Alloy 718
The Effect of Cooling Rate of Solidification on Microstructure and Alloy Element Segregation of AS Cast Alloy 718
Modelling of [delta]-Phase Dissolution During Preheating of INCONEL718 Turbine Disks
Freckle Formation and Thermodynamic Assessment for Nb-Bearing Superalloys
The Tendency for Freckle Formation in Alloy 718
Superalloy 706 Large Forgings by ESR
718 Superalloy Forging Simulation: A Way to Improve Process and Material Potentialities
Manufacturing and Properties of a Large Alloy 706 Disc Made by the Open Die Forging Process
Full Scale Gatorizing of Fine Grain INCONEL 718
Improvement of a Power Generating Turbine Disc Process Using a Finite Element Model Incorporating Metallurgical Paramters
2-1/2D Computer Modeling and Verification of Forged Pyromet 718 Alloy Ingot
The Effectiveness of Direct Aging on INCONEL 718 Forgings Produced at High Strain Rates as Obtained on a Screw Press
Study on Constitutive Equation of Alloy IN718 in the Hammer Forging Process
Advances in the State-of-the-Art Hammer Forged Alloy 718 Aerospace Components
Three-Dimensional Finite-Element Simulation of Hot Ring Rolling
Effects of Process Variables on the Structure and Properties of Hot Rolled 718 Bar

Compositional Modification of Alloy 706
Structural Investigations of Candidate Materials for Turbine Disc Applications Beyond 700[degree]C
Grain Size Prediction of Alloy 718 Billet Forged by Radial Forging Machine Using Numerical and Physical Simulation
Production of Large-Scale Microcrystalline Forgings for Roll Forming of Axially Symmetric Alloy 718 Components
Processing and Properties of Microcrystalline, Submicrocrystalline and Nanocrystalline Alloy 718

Observations on the Development of Delta Phase in IN718 Alloy

Phase Equilibria Among \([\gamma], Ni[subscript 3]Nb[-\delta]\) and Fe[subscript 2]Nb[-\epsilon] Phases in Ni-Nb-Fe and Ni-Nb-Fe-Cr Systems at Elevated Temperatures

Time-Temperature-Transformation Diagram of Alloy 725

Atomic Level Characterization of Precipitation in Alloy 718

Influence of Intermetallic Phase Precipitation During Prolonged Service in Alloy 625 on Its Properties

The Stability of [\gamma]" and [\gamma] Phases in Alloy 718 Under Electron Irradiation

Microstructure and Properties of Direct-Aged Alloy 625

Alpha Chromium Formation in Alloy 718 and Its Effect on Creep Crack Propagation

Effect of Residual Strain on Alpha CR Precipitation in Alloy 718 Fasteners

Effects of Precipitation on Serrated Yielding in INCONEL 718

Effect of Thermal Exposure on Microstructural Evolution in Alloy 718 Fasteners

Microstructure Comparison of High Strength INCONEL 718 Nuts

Thermal Stability of Alloys 718 and ALLVAC 718-ER

Effects of Minor Chemistry Variation on the Structural and Mechanical Behaviour of Alloy 718

Improving Stress Rupture Life of Alloy 718 by Optimizing Al, Ti, P and B Contents

Creep Rupture Behaviour of Nickel Base Alloys for 700[degree]C - Steam Turbines

Orientational Effects and Influence of Delta Phase on Fatigue Crack Growth Rates in a Forged Disc of INCO718 Superalloy

Fatigue Fracture Surface Morphology for Alloy 718

Design of INCONEL 706 for Improved Creep Crack Growth Resistance

The Effects of 650[degree]C Long Exposure on Alloy 718 DA Disk

Time-Dependent Crack Growth Behaviors of Five Superalloys

Effect of Processing/Microstructure on the Threshold Fatigue Crack Growth Behavior of Alloy 718 Forging

Low Cycle Fatigue Behaviour of Alloy 718 Disc Forging at Elevated Temperatures

Ultrasonic Fatigue Strength in INCONEL 718

Influence of Corrosion Pitting on Alloy 718 Fatigue Capability

Microstructure and Mechanical Properties of HIP PM 718

Effect of Solution Treatment Temperature on the Microstructure and Tensile Properties of P/M (HIP) Processed Superalloy INCONEL 718

Precipitation in Spray-Formed IN 718

Characterization of Vacuum Die Cast INCONEL 718 and Derivatives (PWA 1472/PWA 1473)

Application of Process Modeling and Rapid Prototype Patterns in the Development of Thin Wall IN718 Investment Castings

Microstructure and Mechanical Properties of Stress Relieved Electron Beam Welded Alloy 625

Thermal Fatigue Resistance of Alloy 718 for Aluminum Die Casting Dies