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- 3D Sand Printing Benefits
3D Sand Printing Casting Design
3D Sand Printing Mold Quality
3D Sand Printing Process and Terminology
Acid Demand Value (ADV) of Sand
AFS 2 in. Dia. x 2 in. Specimen Preparation, Rammer Method
AFS Clay
AFS Permeability for Green Sand
Aluminum Casting Alloys
Aluminum Casting Applications
Aluminum Casting Defects: Gas Porosity and Shrinkage Porosity
Aluminum Casting Defects: Oxides and Inclusions
Aluminum Casting Production
Basic Melt Practices for Cast Iron
Basics of Fluid Dynamics for Metalcasting Gating Systems
Basics of Heat Transfer Principles for Riser Design
Big Picture of the Casting Process
Casting Defect Analysis Practice and Conclusion
Casting Design for Castability
Casting Material Properties
Cast Iron Defects: Solidification Shrinkage in Ductile Cast Iron
Cast Iron Defects: Solidification Shrinkage in Gray Cast Iron
Chemical Binder Handling Safety Requirements
Coldbox Coremaking Components
Coldbox Coremaking Process
Coldbox Core Quality and Casting Defects
Coldbox Tooling Design Basics
Compactability
Compactación de Arena Verde
Copper Casting Alloys
Copper Casting Applications
Copper Casting Defects: Gating
Copper Casting Defects: Shrinkage
Copper Casting Production
Elements in Cast Iron
Friability
Functions and Features of a Rigging System
Gas Related Defects
Gating Design for 3D Printed Sand
Green Sand Compaction
Green Sand Molding Equipment
Green Sand Molding Process
Green Sand Preparation and Quality Control
Green Sand Raw Materials
Introduction to Casting Defect Analysis
Introduction to Cast Iron
Introduction to Cast Iron Heat Treatments
Introduction to Cast Iron Melting
Introduction to Cast Iron Microstructures
Introduction to Green Sand Defects
Introduction to Lean Manufacturing
Introduction to Steel Heat Treatments
Lean Manufacturing Application
Lean Manufacturing Case Studies
Lean Manufacturing Principles
Loss on Ignition (LOI)
Lost Foam Basics
Lost Foam Design for Aluminum Castings
Mechanics for Heat Treatment: Aluminum Practices
Mechanics for Heat Treatment: Aluminum Processes
Melting and Pouring
Metalcasting Facility Safety
Methylene Blue Clay Test
Moisture Determination for Sand Testing
Nobake Materials and Equipment
Nobake Mold and Core Defects
Nobake Molds and Core Process
Oxide Related Defects
Permanent Mold Casting Process
pH of Sand
Purchasing Castings: Create the Relationship
Purchasing Castings: Grow the Relationship
Purchasing Castings: Maintain the Relationship
Rising Iron Castings
Sand Related Defects
Sand Sampling Methods
Shrink Related Defects
Sieve Analysis and Grain Fineness Number (AFS GFN)
Six Families of Cast Iron
Steel Casting Alloys
Steel Casting Defects: Oxides and Inclusions
Steel Casting Defects: Shrinkage
Steel Casting Production
Steel Casting Quality Requirements and Inspection Methods
Tensile Strength for Chemically Bonded Sand
Types of Alloys
Types of Casting Processes
Types of Casting Tooling
Wet and Dry Compression Strength for Green Sand
Wet Tensile Strength for Green Sand

Spanish Modules

- Defectos en el Hierro Fundido: Contracción por Solidificación en Hierro Gris
Defectos Relacionados con el Gas
Defectos Relacionados con el Óxido
Defectos Relacionados con la Arena
Defectos Relacionados con la Contracción
Elementos en el Hierro Fundido
Equipo de Moldeo de Arena Verde
Introducción a la Fusión de Hierro Fundido
Introducción a la Microestructura del Hierro Fundido
Introducción al Análisis de Defectos de Fundición
Introducción al Hierro Fundido
Introducción a los Defectos de la Arena Verde
Introducción a los Tratamientos Térmicos de Fundición de Hierro
Las Seis Familias de Hierro Fundido
Materias Primas de Arena Verde
Panorama General del Proceso de Fundición
Práctica para el Analisis de Defectos en Piezas y Conclusión
Prácticas Básicas de Fusión para Hierro
Preparación de Arena Verde y Control de Calidad
Proceso de Moldeo de Arena Verde

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