



Principles of Metal Casting, Third Edition

Mahi Sahoo, Sam Sahu

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The definitive metal casting resource--fully updated

Written by prominent industry experts, *Principles of Metal Casting*, Third Edition, addresses the latest advances in the field such as melting, casting processes, sand systems, alloy development, heat treatment, and processing technologies. New chapters cover solidification modeling, casting defects, and zinc and zinc alloys. Detailed photographs, illustrations, tables, and equations are included throughout. Ideal for students and researchers in metallurgy and foundry science as well as foundry industry professionals, this authoritative guide provides all of the information needed to produce premium-quality castings.

Comprehensive coverage includes:

- Patterns
- Casting processes
- Solidification of metals and alloys
- Gating and risering of castings
- Casting process simulation
- Aluminum and aluminum alloys
- Copper and copper alloys
- Magnesium and magnesium alloys
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