

Applied Science in the Casting of Metals

F. Strauss



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Applied Science in the Casting of Metals focuses on metallurgical operations.

The book first discusses the manufacture of iron and steel. Concerns include treatment of liquid iron and steel; treatment of molten iron between blast furnace and steelworks; and treatment of liquid steel. The text takes a look at casting pit practice, including ingot feeding, hot topping of alloy steels, methods of applying hot-tops, and hot-topping methods.

The selection focuses on spray steel making and continuous casting of steel. The process involved in spray steel making; the basic principles of casting of steel; and metallurgical aspects are discussed. The text describes the treatment of cast iron; treatment of non-ferrous heavy metals; treatment of aluminum and magnesium alloys; and treatment of molding sand from molds and cores.

The book explains the feeding of steel castings. Topics include development of exothermic feeding; mechanisms of alumino-thermic reactions; applications of exothermics to steel castings; and surface additions.

The text is a valuable source of data for readers interested in metallurgical operations.

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