

Design Of Pig Casting Machine Ijetch

Design and Technology - Revised Edition Nelson
Thornes

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Includes the institute's Proceedings.

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.

This book on mechanical handling of materials includes sections on continuous hauling of material (elevators;

worm conveyors; push-plate or scraper conveyors; trough cable conveyors; band conveyors; metal band conveyors; picking belts or tables with or without lowering ends or shoots; the continuous trough or travelling trough conveyor; vibrating trough conveyors; tightening gears for elevators and conveyors with summary of driving power, speed of travel, and wear and tear of elevating and conveying machinery; the gravity or tilting bucket conveyors; pneumatic elevators and conveyors; and conveyors designed for special purposes, including the bolinder timer conveyors, coke conveyors, and casting machines). The section on intermittent handling of material has two chapters on endless chain and rope haulage and ropeways and aerial cableways, including ropeways, cableways, and applicances for coaling at sea. The third section on unloading and loading appliances includes chapters on discharging by means of skips and grabs, discharging vessels and barges by means of elevators, unloading by means of specially constructed self-emptying boars and barges, discharging of railway trucks, unloading by means of coal tips, colliery tippers, miscellaneous loading and unloading devices, and automatic loading devices. The miscellaneous section has chapters on the automatic weighing of material, coaling, of railway engines, coal-handling plant for gas works, power stations, boiler-houses, etc., floor and silo warehouses for grain and seeds, coal stores and coal silos, and high-level or cantilever cranes. Illustrated with many well-done fold out plates with schematic drawings. (jvl).

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