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Metal Casting and Welding Technical Publications

Mechanical engineering, as its name suggests, deals with the mechanics of operation of mechanical systems. This is the branch of engineering which includes design, manufacturing, analysis and maintenance of mechanical systems. It combines engineering physics and mathematics principles with material science to design, analyse, manufacture and maintain mechanical systems. This book covers the field requires an understanding of core areas including thermodynamics, material science, manufacturing, energy conversion systems, power transmission systems and mechanisms. My hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Turbo Machines Technical Publications

The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need. The term machine design deals with the design of machines, their mechanisms and elements. Design of Machine Element (DME) may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit. Machine elements are basic mechanical parts and features used as the building blocks of most machines. This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements. This book covers design of important elements such as gears, bearings and belt drives. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Basic Mechanical Engineering Technical Publications

The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need. The term machine design deals with the design of machines, their mechanisms and elements. Design of Machine Element (DME) may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit. Machine elements are basic mechanical parts and features used as the building blocks of most machines. This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements. This book covers design of important mechanical elements such as shafts, couplings, springs and power screws under static load. The design of welded and threaded joints and the members subjected to fluctuating loads is also included in this book. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Welding Technology Technical Publications

Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them. It includes unlimited practical applications ranging from microscopic biological systems to automobiles, airplanes and spacecraft propulsion. Fluid Mechanics is the study of fluid behavior at

rest and in motion. It also gives information about devices used to measure flow rate, pressure and velocity of fluid. The book uses plain, Lucid language to explain fundamentals of this subject. The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics. Each chapter is well supported with necessary illustrations, practical examples and solved problems. All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies. All care has been taken to make readers comfortable in understanding the basic concepts of the subject.

Design of Machine Elements - I Technical Publications

Metal casting is the process of producing metal or alloy component parts. In casting the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape. Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods. Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusion. Many different energy sources can be used for welding including gas flame, electric arc, a laser and electron beam, friction and ultrasonic. Our hope is that this book, through its careful explanations and concepts and its use of sketches and figures bridges the gap between knowledge and proper application of that knowledge.

Fluid Mechanics Technical Publications

Welding is a fabrication process that joins materials usually metals by using high heat to melt the parts together and allowing them to cool causing fusing. Many different energy sources can be used for welding including gas flame, electric arc, a laser and electron beam, friction and ultrasonic. This book includes various methods of welding and design of weld joints, weldability and testing of weldments. Welding technology also includes latest and newer techniques for welding. Our hope is that this book, through its careful explanations of concepts and its use of numerous examples, sketches and figures, bridges the gap between knowledge and proper application of that knowledge.

Design of Machine Elements - II Technical Publications

Turbo machines, in mechanical engineering, describes machines that transfer energy between rotor and fluid, including turbines, pumps and compressors. While turbine transfers energy from fluid to rotor and compressor and a pump transfers energy from rotor to fluid. Turbo machine is a power or a head generating machine which employs the dynamic action of a rotating element, the rotor; the action of the rotor changes the energy level of the continuously flowing fluid through the machine. The majority of turbo machines run at comparatively higher speeds without any mechanical problems and high volumetric efficiency. Turbo machines can be categorised on the basis of the nature of flow path through the passage of the rotor. The same fundamentals are applicable to all turbo machines, certainly there are significant differences between these machines. In this book SI unit system is followed. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.

Basic Mechanical Engineering

Basic Mechanical Engineering