



Mechanical Engineering Hand

A.E. Peatfield

Mechanical Engineering Hand :

Mechanical Engineering for Makers Brian Bunnell, Samer Najia, 2020-01-15 This practical user friendly reference book of common mechanical engineering concepts is geared toward makers who don t have or want an engineering degree but need to know the essentials of basic mechanical elements to successfully accomplish their personal projects The book provides practical mechanical engineering information supplemented with the applicable math science physics and engineering theory without being boring like a typical textbook Most chapters contain at least one hands on fully illustrated step by step project to demonstrate the topic being discussed and requires only common inexpensive easily sourced materials and tools Some projects also provide alternative materials and tools and processes to align with the reader s individual preferences skills tools and materials at hand Linked together via the authors overarching project building a kid sized tank the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications Written with humor a bit of irreverence and entertaining personal insights and first hand experiences the book presents complex concepts in an uncomplicated way Highlights include Provides mechanical engineering information that includes math science physics and engineering theory without being a textbook Contains hands on projects in each chapter that require common inexpensive easily sourced materials and tools All hands on projects are fully illustrated with step by step instructions Some hands on projects provide alternative materials and tools processes to align with the reader s individual preferences skills tools and materials at hand Includes real world insights from the authors like tips and tricks Staying on Track and fail moments Lost Track Many chapters contain a section Tracking Further that dives deeper into the chapter subject for those readers that are interested in more details of the topic Builds on two related Make projects to link and illustrate all the chapter topics and bring individual concepts together into one system Furnishes an accompanying website that offers further information illustrations projects discussion boards videos animations patterns drawings etc Learn to effectively use professional mechanical engineering principles in your projects without having to graduate from engineering school

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essentials of basic mechanical elements to successfully accomplish their personal projects The book provides practical mechanical engineering information supplemented with the applicable math science physics and engineering theory without being boring like a typical textbook Most chapters contain at least one hands on fully illustrated step by step project to demonstrate the topic being discussed and requires only common inexpensive easily sourced materials and tools Some projects also provide alternative materials and tools and processes to align with the reader s individual preferences skills tools and materials at hand Linked together via the authors overarching project building a kid sized tank the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications Written with humor a bit of irreverence and entertaining personal insights and first hand experiences the book presents complex concepts in an uncomplicated way Highlights include Provides mechanical engineering information that includes math science physics and engineering theory without being a textbook Contains hands on projects in each chapter that require common inexpensive easily sourced materials and tools All hands on projects are fully illustrated with step by step instructions Some hands on projects provide alternative materials and tools processes to align with the reader s individual preferences skills tools and materials at hand Includes real world insights from the authors like tips and tricks Staying on Track and fail moments Lost Track Many chapters contain a section Tracking Further that dives deeper into the chapter subject for those readers that are interested in more details of the topic Builds on two related Make projects to link and illustrate all the chapter topics and bring individual concepts together into one system Furnishes an accompanying website that offers further information illustrations projects discussion boards videos animations patterns drawings etc Learn to effectively use professional mechanical engineering principles in your projects without having to graduate from engineering school

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Basic of Civil and Mechanical Engineering Global Engineering, 2018-07-08 To impart basic knowledge on Civil and Mechanical Engineering To explain the materials used for the construction of civilized structures To make the understand the fundamentals of construction of structure To explain the component of power plant units and detailed explanation to IC engines their working principles To explain the R AC system

Failure Analysis in Engineering Applications Shin-Ichi Nishida, 2014-05-15 Failure Analysis in Engineering Applications deals with equipment and machine design together with examples of failures and countermeasures to avoid such failures This book analyzes failures in facilities or structures and the ways to prevent them from happening in the future The author describes conventional terms associated with failure or states of failure including the strength of materials as well as the procedure in failure analysis materials used design stress service conditions simulation examination of results The author also describes the mechanism of fatigue failure and prediction methods to estimate the remaining life of affected structures The author cites some precautions to be followed in actual failure analysis such as detailed observation on the fracture site removal of surface deposits for example rusts without altering the fracture size or shape The book gives examples of analysis of failure involving a crane head sheave hanger wire rope transmission shaft environmental failure of fastening screws and failures in rail joints This book is intended for civil and industrial engineers for technical designers or engineers involved in the maintenance of equipment machineries and structures

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