[3] Dimensions specified in a toolbox are usually regarded as "weak" dimensions, meaning they may be overridden by other constraints or dimensions.

[4] From <Dimension> toolbox, select <Radius>.

[5] Click one of the fillets to create this dimension. This action turns a "weak" dimension to a "strong" one. The fillets turn blue now.

2.2-14 Extrude to Create 3D Solid

[5] Click <Display Plane> to turn off the display of sketching plane.

[2] Click <Extrude>.

[4] Click <Generate>.

[1] Click the little cyan sphere to rotate the world to an isometric view, a better view.

[6] Click all plus signs (+) to expand and examine <Tree Outline>.

[3] Type 10 (mm) for <Depth>. Note that Sketch1 is automatically selected as the default <Geometry>.
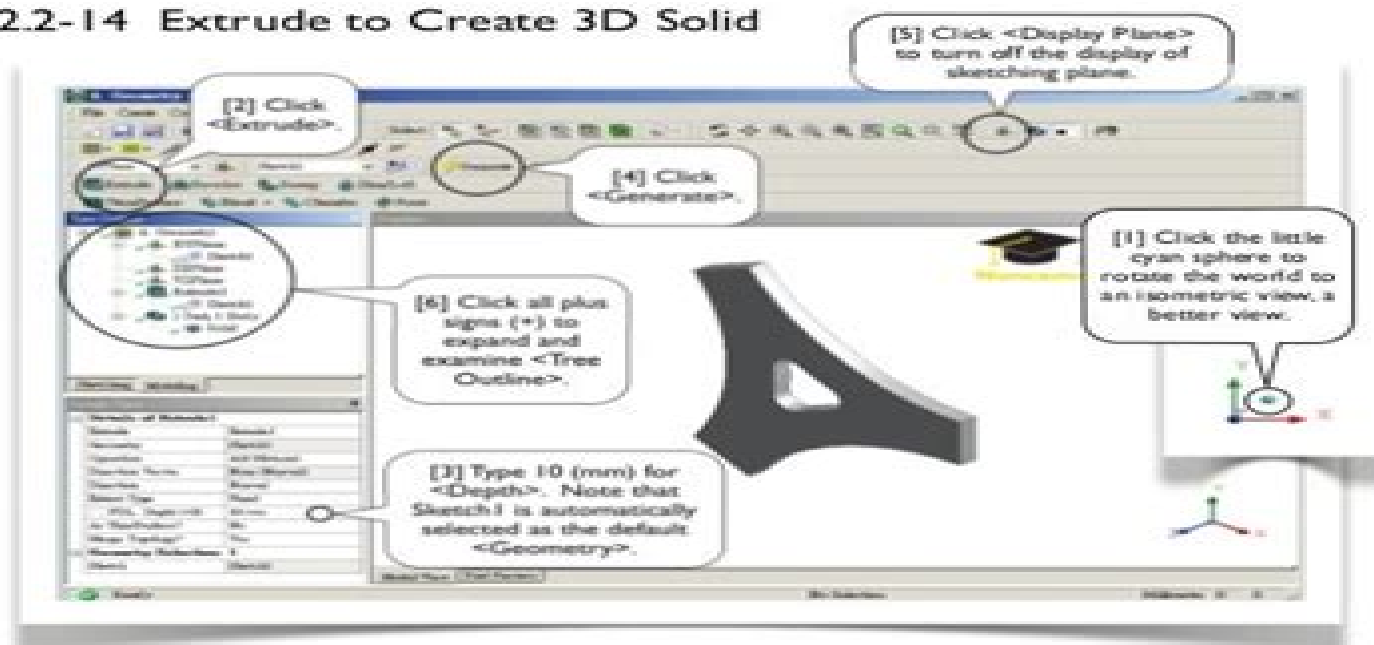
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mechanism design dynamics of machines and working processes friction wear and lubrication in machines design and manufacturing engineering of industrial facilities transport and technological machines mechanical treatment of materials industrial hydraulic systems This book gathers selected papers presented at the 10th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2024 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope this book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates **Industrial Tribology** Jitendra Kumar Katiyar,Alessandro Ruggiero,T V V L N Rao,J. Paulo Davim,2022-11-11 Covering energy saving technologies and how these are incorporated into component design this book is relevant to many industries including automotive engineering and discusses the topical issue of sustainability in industry This book details recent fundamental developments in the field of tribology in industrial systems Tribology has advanced significantly in recent years Tribological performance depends on external parameters such as contact pressure at the interface system temperature relative speed between bodies and contact behaviour Through ensuring that mechanisms work in an energy efficient manner and minimizing wear engineers should seek to implement the study of tribology to improve the life of machinery within industry Essential to the study of component design and condition monitoring the book touches upon topics such as gears bearings and clutches Additionally it discusses tribology s relation to Industry 4 0 and incorporates the results from cutting edge research Industrial Tribology Sustainable Machinery and Industry 4 0 will be of interest to all engineers working in industry and involved in mechanical engineering material engineering mechanisms and component design and automotive engineering **Designing Exoskeletons** Luis Adrian Zuñiga-Aviles,Giorgio Mackenzie Cruz-Martinez,2024-03-27 Designing Exoskeletons focuses on developing exoskeletons following the lifecycle of an exoskeleton from design to manufacture It demonstrates how modern technologies can be used at every stage of the process such as design methodologies CAD CAE CAM software rapid prototyping test benches materials heat and surface treatments and manufacturing processes Several case studies are presented to provide detailed considerations on developing specific topics Exoskeletons are designed to provide work power rehabilitation and assistive training to sports and military applications Beginning with a review of the history of exoskeletons from ancient to modern times the book builds on this by mapping out recent innovations and state of the art technologies that utilize advanced exoskeleton design Presenting a comprehensive guide to computer design tools used by bioengineers the book demonstrates the capabilities of modern software at all stages of the process looking at computer aided design manufacturing and engineering It also details the materials used to create exoskeletons notably steels engineering polymers composites and emerging materials Manufacturing processes both conventional and unconventional are discussed for example casting powder metallurgy additive manufacturing and heat and surface treatments This book is essential reading for those in the field of exoskeletons such as designers workers in research and development engineering and design

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