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Applied Metrology for Manufacturing Engineering

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Applied Mechanical Design Ammar Grous,2018-02-15 This book is the result of lessons tutorials and other laboratories dealing with applied mechanical design in the universities and colleges In the classical literature of the mechanical design there are quite a few books that deal directly and theory and case studies with their solutions All schools engineering colleges technical industrial and research laboratories and design offices serve design works However the books on the market remain tight in the sense that they are often works of mechanical constructions This is certainly beneficial to the ordinary user but the organizational part of the functional specification items is also indispensable

Sustainable Material Design, and Process Ravi Kant,Hema Gurung,Shashikant Yadav,2023-09-07 This text emphasizes the importance of sustainable material design and manufacturing processes and how the needs are changing day by day It comprehensively covers important topics including material recycling optimal utilization of resources green materials biocomposites clean and green synthesis stable material properties utilization of renewable energy sources ergonomic design and sustainable design The text examines the design process manufacturing and upscaling of next generation materials and their application in diverse industries The text is primarily written for graduate students and academic researchers in the fields of manufacturing engineering materials science mechanical engineering and environmental engineering Presents an in depth understanding of the progress of the need for new innovative and next generation materials Discusses biocomposites and green materials for eco friendly products in a comprehensive manner Explores recycling techniques of materials for sustainable manufacturing Presents conceptual framework of sustainable product development Covers important topics such as process optimization

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