

Springer Handbook of Mechanical Engineering



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Encyclopedias describe Mechanical Engineering as a professional engineering discipline that involves the application of principles of physics for analysis, design, manufacturing and maintenance of mechanical systems. It requires a solid understanding of key concepts including mechanics, kinematics, thermodynamics and energy. Mechanical engineers use these principles and others for example in the design and analysis of automobiles, aircrafts, heating and cooling systems, industrial equipment and machinery. In addition to these main areas, specialized fields are offered at universities to prepare future engineers for their position in industry, such as: mechatronics and robotics, transportation and logistics, cryogenics, fuel technology, automotive engineering, biomechanics, vibration, optics and others. Accordingly, the Springer Handbook of Mechanical Engineering devotes its contents to these areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. Authors from all over the world have contributed with their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems.

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