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Mechanical Engineering - Design of Machine Elements I - Nptel

- Definition -Machine Design is defined as the use of scientific principles, technical

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information and imagination in the description of a machine or a mechanical system to perform specific functions with maximum economy and efficiency -Design is an innovative and highly iterative process

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Machine element refers to an elementary component of a machine. These elements consist of three basic types: structural components such as frame members, bearings, axles, splines, fasteners, seals, and

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lubricants, mechanisms that control movement in various ways such as gear trains, belt or chain drives, linkages, cam and follower systems, including brakes and clutches, and control components such as buttons, switches, indicators, sensors, actuators and computer controllers. While generally not

Machine element -
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Design Of **Wikipedia**

All the machines are made up of elements or parts and units. Each element is a separate part of the machine and it may have to be designed separately and in assembly. Each element in turn can be a complete part or made up of several small pieces which are joined together by riveting, welding etc.

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What are Machine Elements? Classification of Machine ...

Stiffness or rigidity:
The machine should be rigid enough so that under the effect of applied forces for which it is designed there is no deformation of the machine or machine elements beyond the specified limits. If there is excessive deformation, there are chances of

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the failure of the
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the whole machine.

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Similar to Adaptive
Design, Developmental
Design uses existing
concepts and
technology but adds or
combines new machine
elements and

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components to create something unique. An example often referred to in Developmental Design is the motorcycle, which is essentially the marriage between a bicycle and a combustion engine.

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Edition M. F. Spotts, T.
E. Shoup, L. E.
Hornberger, Pearson
Prentice Hall, Upper
Saddle River, NJ, 2004
(ISBN 0-13-048989-1).

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