

Experiment no. 6

Aim : To Design a connecting rod.

Function: The main function of the connecting rod is to transmit the push and pull from the piston pin to crank pin. In many cases its secondary function is to convey the lubricating oil from the bottom end to the top end i.e. from the crank pin to the piston pin and then for splash of jet cooling of piston crown.

Materials: The materials for connecting rods range from mild or medium carbon steels to alloy steel. For high speed engines the connecting rods may also be made of duralumin and aluminium alloys

Shape of connecting rod: I and H sections are most common sections used for connecting rod



Fig. 6.1 Connecting Rod

Stresses in connecting rod

The various forces acting on the on connecting rod are

1. The combined effect of gas pressure on the piston and inertia of the reciprocating parts
2. Friction of piston rings and that of piston.
3. Inertia of connecting rod.
4. The friction of two end bearings i.e. piston pin bearing and crank pin bearing.

Mechanical Design Lab Manual

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Mechanical Design Lab Manual:

Mechanical Design Using CADD Donald D. Voisinet, 1989 Digital Design from Zero to One Jerry D. Daniels, 1996-04-19
Takes a fresh look at basic digital design From definition to example to graphic illustration to simulation result the book progresses through the main themes of digital design Technically up to date this book covers all the latest topics Field programmable gate arrays PALs and ROMs The latest memory chips for SRAM and DRAM are shown Software for creating the excitation equations of FSM are covered as well as LogicWorks and Beige Bag PC and more *Outlines of Human Embryology* George Reese Satterlee, 1914 *Propellers* Cecil Hobart Peabody, 1912 **A Finite Element Method Primer for Mechanical Design** Charles E. Knight, 1994 **Resources in Education** , 1986 Power and Power Transmission Eugene Wycliffe Kerr, 1914 **Logging** Ralph Clement Bryant, 1913 **American Men of Science** , 1949 **Current Advances in Mechanical Design and Production VII** M.F. Hassan, S.M. Megahed, 2000-01-31 The International Conference on Mechanical Design and Production has over the years established itself as an excellent forum for the exchange of ideas in these established fields The first of these conferences was held in 1979 The seventh and most recent conference in the series was held in Cairo during February 15 17 2000 International engineers and scientists gathered to exchange experiences and highlight the state of the art research in the fields of mechanical design and production In addition a heavy emphasis was placed on the issue of technology transfer Over 100 papers were accepted for presentation at the conference Current Advances in Mechanical Design Production VII does not however attempt to publish the complete work presented but instead offers a sample that represents the quality and breadth of both the work and the conference Ten invited papers and 54 ordinary papers have been selected for inclusion in these proceedings They cover a range of basic and applied topics that can be classified into six main categories System Dynamics Solid Mechanics Material Science Manufacturing Processes Design and Tribology and Industrial Engineering and its Applications **Sewerage** Amory Prescott Folwell, 1912 Elements of Water Bacteriology Samuel Cate Prescott, Charles-Edward Amory Winslow, 1913 **Harmonic Functions** William Elwood Byerly, 1906 Practical Mechanical Engineering Carl Stephen Dow, 1907 **History of Modern Mathematics** David Eugene Smith, 1896 **The Elements of Specification Writing** Richard Shelton Kirby, 1913 Fossil Energy Update , 1983 **Catalogue of the New Hampshire College of Agriculture and the Mechanic Arts** New Hampshire College of Agriculture and the Mechanic Arts, 1916 *Elements of Applied Microscopy* Charles-Edward Amory Winslow, 1905 *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* , 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

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