

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

Michael Rajnik



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 A Finite Element Method Primer for Mechanical Design Charles E. Knight, 1994 **Power and Power Transmission** Eugene Wycliffe Kerr, 1914 **Sewerage** Amory Prescott Folwell, 1912 American Men of Science , 1949 **Propellers** Cecil Hobart Peabody, 1912 **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 **Elements of Water Bacteriology** Samuel Cate Prescott, Charles-Edward Amory Winslow, 1913 *Resources in Education* , 1986 **Harmonic Functions** William Elwood Byerly, 1906 Logging Ralph Clement Bryant, 1913 **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 Manuals Combined: Navy Air Force And Army Occupational Health And Safety - Including Fall Protection And Scaffold Requirements , Over 2 900 total pages Contains the following publications 1 NAVY SAFETY AND OCCUPATIONAL HEALTH PROGRAM MANUAL 2 NAVY SAFETY AND OCCUPATIONAL HEALTH SOH PROGRAM MANUAL FOR FORCES AFLOAT 3 DEPARTMENT OF THE NAVY DON FALL PROTECTION GUIDE 4 Air Force Consolidated Occupational Safety Instruction 5 U S Army Corps of Engineers SAFETY AND HEALTH REQUIREMENTS **Experimental Engineering and Manual for Testing** Rolla Clinton Carpenter, Herman

Diederichs,1913

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