

MACHINE TOOL DESIGN

Manufacturing system approach in the Design of Machine Tools, Kinematics & dynamics of Machine Tools

Design of slides and slide ways, spindles, bearings, columns, etc. stiffness and rigidity

Design of mechanical, electrical and hydraulic drives, protective and safety devices

Selective and pre-selective mechanisms

Concepts of aesthetics and ergonomics in Machine Tools

Recent Development in the design of Machine tool elements

References:

1. Design Principles of Metal Cutting Machine Tools by F. Koenigsberger - Macmillan
2. Principles of Machine Tools by G.C. Sen and A. Bhattacharya - New Central Book Agency
3. Design of Machine Tools by S.K. Basu and D.K. Pal - Oxford & IBH
4. Machine Tool Design by N.K. Mehta - Tata MacGraw Hill
5. Machine Tool Design (Vol. 3 & 4) by N. Acherkan - Mir Publishers