



# Machine Tool Structures: v. 1

*F. Koenigsberger, J. Tlustý*

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Machine Tool Structures, Volume 1 deals with fundamental theories and calculation methods for machine tool structures. Experimental investigations into stiffness are discussed, along with the application of the results to the design of machine tool structures. Topics covered range from static and dynamic stiffness to chatter in metal cutting, stability in machine tools, and deformations of machine tool structures.

This volume is divided into three sections and opens with a discussion on stiffness specifications and the effect of stiffness on the behavior of the machine under forced vibration conditions. The following chapters explore the stability of the machine structure against chatter; methods of stability analysis; tests and principles of dampers; chatter during grinding operations; and stresses and deformations of closed box structures subjected to bending and shear. Calculation methods for determining stiffness constants of a structure's individual parts, as well as methods for determining the resulting stiffnesses, modal shapes, and their parameters, are also described. The final chapter presents systematic procedures for the analysis of machine tool structures.

This book is intended for university students, research workers, and designers.

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