



Thermal Deformation in Machine Tools

By Yoshimi Ito



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Proven guidelines for reducing thermal deformation in machine tools

Written by global experts in the field of machine tool engineering, this authoritative work offers tested solutions for reducing thermal deformation in machine tools. Analytical expressions and design data for estimating the magnitude of generated heat and determining the thermal boundary condition are provided. The book presents remedies for decreasing thermal deformation from structural design and NC compensation technology. Computational methods for evaluating and estimating thermal behavior are also included in this detailed guide.

Thermal Deformation in Machine Tools covers:

- Fundamentals in design of structural body components
- Estimation of heat sources and thermal deformation
- Structural materials and design for preferable thermal stability
- Various remedies for reducing thermal deformation
- Finite element analysis for thermal behavior
- Engineering computation for thermal behavior and thermal performance test

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Editorial Review

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Yoshimi Ito, Dr.Eng., CEng., FIET, is professor emeritus at the Tokyo Institute of Technology and past president of the Japan Society of Mechanical Engineers. The author of numerous engineering research papers and books, he is currently vice president of the Engineering Academy of Japan and a visiting professor at the Kanagawa Institute of Technology.

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