

Motto

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子曰：“知之者不如好知者，好知者不如乐知者。”

——《论语·雍也第六》

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Design of Measurement & Control Instruments

Chapter 4. Precision Machine System Design

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Outline

- ❑ Structural Design of Instruments
- ❑ Frames and Design
- ❑ Slides and Design
- ❑ Spindles and Design
- ❑ Servo Mechanical System Design
- ❑ Micro-Displacement System Design



Supplementary Reading Materials for Chapter 4

- Alexander H. Slocum, Precision Machine Design, Prentice Hall, Inc., 1992
- 狄锦如, 高精度密珠轴承的设计, 机床, 1991, (5): 44-47
- 狄锦如, 高精度密珠轴承的设计, 工具技术, 1990, 24(11): 43-47
- 狄锦如, 高精度密珠轴承的设计, 机械科学与技术(江苏), 1990, (5): 19-23
- 毛书越, 密珠轴承过盈量的分析与计算, 航空精密制造技术, 1991, (2): 21-23
- 祝福生, 高精密密珠主轴系统的研制, 电子工业专用设备, 2000, 29(4): 42-45

Lectures

- ❑ Lecture 1: Structural Design of Instruments
- ❑ Lecture 2: Frames and Design
- ❑ Lecture 3: Slides and Design
- ❑ Lecture 4: Spindles and Design
- ❑ Lecture 5: Servo Mechanical System Design
- ❑ Lecture 6: Micro-Displacement System Design
- ❑ Summary
- ❑ Acknowledgement



Summary



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Acknowledgement



***Thank you very much for
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