



# FEM and Micromechatronics with ATILA Software

*Kenji Uchino*

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## **FEM and Micromechatronics with ATILA Software** Kenji Uchino

Students preparing to work with mechatronics, particularly with highly precise and smart actuators, face the challenge of designing and analyzing devices without formal and practical guidance in computer techniques. Finally there is a textbook that is as practical as it is authoritative: Kenji Uchino's FEM and Micromechatronics with ATILA Software.

### Ideal for Today's Computer-Based Curricula

Every aspect of this book reflects its focus on being easy to use, easy to teach from, and above all, easy to implement. The first half of the text outlines the theory needed to develop and design smart actuators and transducers, while the second half walks students step-by-step through the software implementation using seven extensive examples. Even the book's lay-flat binding makes it easy for students to follow the text while working simultaneously at a computer. The companion CD-ROM supplies a free educational version of ATILA-Light.

### Unified Coverage for Integrated Technologies

Covering the myriad challenges posed by smart transducers, the author introduces the fundamentals of piezoelectric and magnetostrictive devices, practical materials, device designs, drive and control techniques, and typical applications. Numerous problems and examples give students ample opportunity to put the concepts into practice.

Outlining a complete treatment in 30 convenient 75 minute lessons, FEM and Micromechatronics with ATILA Software is a unique classroom text that students will continue to use throughout their entire careers.

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