scme-support.org



Learning Modules Available

MEMS Introductory Topics

MEMS History Introduction to Sensors Introduction to Transducers Introduction to Actuators Units of Weights and Measures A Comparison of Scale Introduction to Statistical Process Control Problem Solving for Microsystems Intro to Nanotechnology

MEMS Safety

Hazardous Materials Chemical Lab Safety Rules Safety Data Sheets Chemical Labels - NFPA Personal Protective Equipment

MEMS Applications

MEMS Applications Overview Microcantilevers Micropressure Sensors & the Wheatstone Bridge **Micropumps**

MEMS Fabrication

Crystallography for Microsystems Deposition Overview for Microsystems Photolithography Overview for Microsystems Etch Overview for Microsystems MEMS Micromachining Overview SCME Pressure Sensor Process MEMS: Making Micro Machines

BioMEMS

BioMEMS Overview **BioMEMS** Applications DNA Overview DNA to Protein Cells - The Building Block of Life Biomolecular Applications for BioMEMS Clinical Laboratory Techniques and Microtechnology **BioMEMS Diagnostics Overview BioMEMS** Therapeutics Overview MEMS for Environmental and Bioterrorism Applications **Regulations of BioMEMS DNA** Microarrays

Hands-on Kits Available

Pressure Sensor Model Activity and Kit MEMS: Making Micro Machines DVD Kit Microcantilever Activity and Kilt Crystallography Activities and Kit Micropressure Sensor Process Activity and Kit Bulk Micromachining Activity and Kit Surface Micromachining Activity and Kit Science of Thin Films Activity and Kit DNA Microarray Model Kit Learning Microsystems through Problem Solving LIGA

Online Courses Available

Career Pathways in Microtechnology Crystallography **Microcantilevers BioMEMS** Applications Micropressure Sensors Science of Thin Films

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