PIEZOELECTRIC ACTUATORS
Introductory course
Dr. Frank CLAEYSSEN

Basic knowledges
• Basics on piezoelectric materials bulk and MLA
• Piezo materials for actuators
• Constitutive laws / Equivalent electric circuit

Review of piezoelectric actuators
• Review of direct and amplified piezoelectric actuators
• Piezo mechanisms
• Exercises

Review of piezoelectric motors
• Piezoelectric motors
• Resonant structure
• Tribology of piezoelectric motors

Practises

LINEAR MAGNETIC ACTUATORS
Introductory course
Mr. Gérald AIGOUY

Basics of magnetism for actuators
• Magnetic effects and laws
• Magnetic forces
• Magnetic materials

Linear magnetic actuators
• The different kinds of linear actuators
• Design and performance of:
  - Moving coil actuators,
  - Moving magnet actuators,
  - Moving iron actuators.
• Introduction to other magnetic actuators:
  - MRF,
  - ...

Practises

**Venue**
June 19, 2020, from 9 am to 5 pm
Congress Center Rosengarten
Rosengartenplatz 2, 68161 Mannheim

Who should attend
Engineers in a research department
Electronics and mechanical engineers

Participation fee
- 550€ for participants from industry
- 480€ for participants from university

Including documentation, coffee and lunch breaks