PIEZOELECTRIC ACTUATORS
Introductory course
Dr. Frank CLAEYSEN

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
September 25, 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

Contact and registration
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