

TWO TRAINING SESSIONS

ON JUNE 12TH AT ACTUATOR 2024

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

Dr. Xavier DE LÉPINE

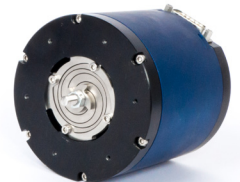
Basics of magnetism for actuators

- 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



ACTUATOR 24

International Conference and Exhibition on
New Actuator Systems and Applications



Contact and registration

CEDRAT TECHNOLOGIES: Mrs. Sandrine HUGI

training.ct@cedrat-tec.com

+33 (0)4 56 58 04 00

www.cedrat-technologies.com

Venue

June 12th, 2024, from 9 am to 5 pm

Kurhaus Wiesbaden

Kurhausplatz 1

65189 Wiesbaden

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