

Virtual Engineering ...

... Engineering Services for the Industry (Rotating Machinery)

ENGINEERING

Services

Customer-

Dedicated

Support

Computer Simulation of Drive Systems (Drivelines) in <u>Industrial Applications</u> (Rotating Machinery)

Customer-Dedicated Engineering Services

Application and Distribution of User-Friendly Software for PCs (Windows 10 and later)

Dr.-Ing. Andreas Laschet is specialist in computer simulation technology. Due to longterm experiences in the simulation of complete drive systems, he offers a professional customer **CAE Service for Engineers** worldwide including consultation, analysis, troubleshooting and computer simulation of **TORSIONAL & LATERAL VIBRATIONS IN ROTATING MACHINERY**:

- Turbomachinery
- Compressors (all types),
 Pumps, Fans/Blowers/Ventilators, Generator Drives
- Vehicle and Ship Drivelines (with E-drives or all types of engines)
- Drive Systems in Aviation & Aerospace Applications
- Drives with Couplings, Clutches, Gear Stages,
 Universal Shafts, E-Motors, Reciprocating Engines
- Test Rig Optimization considering dynamic effects
- Driveline Matching crucial for design & troubleshooting (measurements, field testings, and machine diagnosis)





SOFTWARE

Simulation + Analysis Tools









The **CAE Service** provides the customer with a project-oriented analysis and interpretation of vibrations caused by external or internal excitation or parametrically excited disturbances. Nonlinear characteristics like backlash or torque-angle-hystereses can be taken into account, too. In order to meet all customers' requirements, **Dr.-Ing. Andreas Laschet** uses and distributes high-sophisticated simulation software in close cooperation with software & engineering companies like *Concepts NREC, USA* with the rotordynamic software **ARMD** (www.rbts.com).

I present "Service for Engineers" regularly at international conferences and exhibitions: ASME, POWER-GEN, SAE, IMechE, VDI, EFRC, TVS, etc. Please also visit the International Rotordynamic Seminars in close cooperation with *Concepts NREC, USA*.

Measurements and field testings are done via my cooperative partners worldwide. In all these cases, we combine the design results and offer the customer a **complete design solution including CAE and test results** – carried out by a professional team of experts.

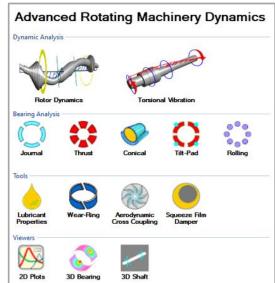


Customer Trainings
Short Courses



The Professional Engineering Service ...

... supported by Concepts NREC's simulation software ARMD 6.2 – software & training service

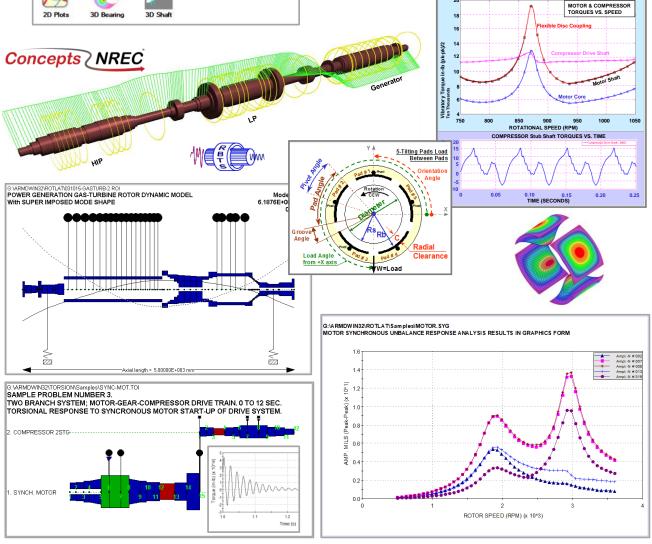


ARMD consists of 4 main modules:

- Rotor Dynamics
- Torsional Vibration
- Bearing Analysis
- Lubricant Performance

... with a variety of features, including:

- user-friendly interface
- project and file management system
- 2D/3D graphics capabilities
- intermodule communication and data exchange
- powerful help tools & model templates



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