

About Organisers:

COEP: (www.coep.ac.in)

College of Engineering Pune, (COEP), was established in the year 1854 and is one of the oldest engineering colleges of the country. The college holds the status of fully autonomous institute of Govt of Maharashtra. At present, it offers nine UG and eighteen PG programmes, and has more than 3200 students enrolled in its various courses. The institute has modern infrastructure - classrooms, faculty rooms, laboratories, state-of-the-art equipment, 90 Mbps internet connectivity, optical fiber and Wi-fi campus. The institute is poised to scale new heights in the field of technical education through the dedicated efforts of its faculty, staff and students. The College is situated on the Mumbai-Pune road and is spread over an area of about 36 acres land. The college offers regularly a wide variety of trainings in technology and software areas to their own students as well as to industry personnel.

ProSIM R&D Center (www.pro-sim.com)

ProSIM is a premier industrial R&D and engineering services company. ProSIM is assisting the industries in India, and abroad by adopting a variety of computer simulation techniques for their innovation, design verification, optimization, value engineering, failure analysis, virtual prototyping and virtual product development.

ProSIM has centers of excellence in

- > Design, FEM analysis, (including electro-magnetic analysis, seismic analysis, etc)
- > Multi-Body Dynamics
- > Manufacturing Process Simulation
- > Fatigue, fracture and durability
- > Materials modeling and materials technology
- > Multi Disciplinary Optimization

Contact Details

Dr D W Pande

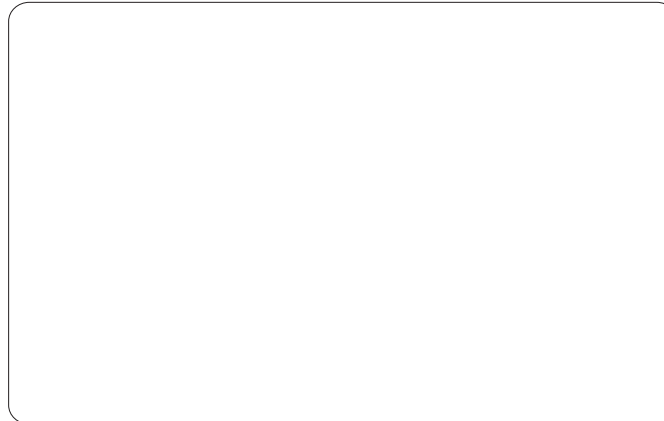
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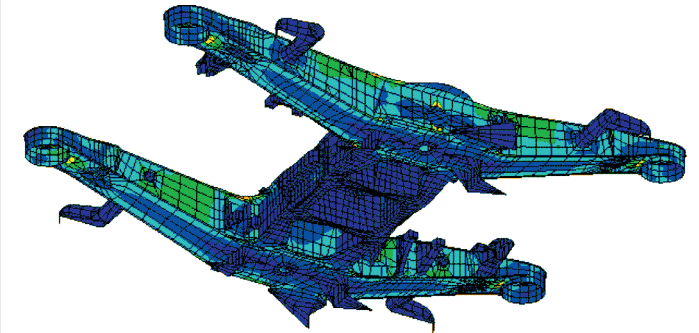
ProSIM
engineering your designs



Workshop on Advanced Nonlinear Finite Element Analysis

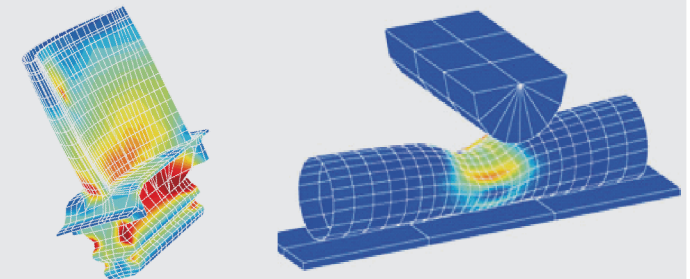
9th-10th of April 2010

Venue:
College of Engineering, Pune



Organised By

College of Engineering, Pune (COEP)
&
ProSIM, Bangalore



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engineering your designs



About the Course

Finite element analysis techniques have been studied for several decades by scientists. In the last two decades, it has been widely applied as a design verification and validation tool in the industry across different verticals.

A variety of problems of the industry including the stress analysis, dynamic analysis, thermal analysis, flow analysis, fatigue analysis, crash analysis, shock analysis, electro-magnetic analysis are analysed using FEM techniques. Linear static analysis has been very commonly taught and used. However, a significant majority of the complex industrial problems have to be treated as non-linear and time dependent to get reasonable solutions. The course introduces to a practicing FEM analysis, the nuances of non-linear dynamic analysis. Course will cover theory with lab tutorials. Participants will be given a set of tutorials which they can try at their leisure using tools of their choice. Topics to be covered include:

- > Material Non-linearity
- > Geometric Non-linearity
- > Contact
- > Dynamic analysis
- > Optimization Techniques

Case Studies which depict the translation of physical reality to simulation environment using proper boundary conditions and loading will be presented.

Highly experienced speakers will share their wisdom in the unique interactive workshop

Who Should Attend:

Course can be attended by FEM analysts and designers from Industry, scientists from R&D labs, faculty of engineering colleges, PG /UG students of engineering colleges. It is expected that the participants will have prior basic knowledge of FEM analysis using any of the FEM tools.

Workshop Faculty:

Workshop will be conducted by a team of experts who have 15-25 years of experience.

Mr. Anil Gupta

Head - Modeling and Simulation group
Eaton India Engineering Center (EIEC)

Dr. Anil D. Sahasrabudhe

Director, COEP, Pune

Mr. Arul Selvan

Asst. Director
Head - Structured Materials Group
ProSIM, Bangalore

Mr. Ashok Joshi

Head CAE,
Tata Motors, Pune

Mr. Aslam Adam

General Manager - CAE
Mahindra & Mahindra, Mumbai

Dr S Shamasundar

Managing Director
ProSIM, Bangalore

Dr. B Sreehari Kumar

Director - Technical
ProSIM, Bangalore

Dr V Sundararajan

Group Coordinator
Scientific and Engineering Computing Group,
CDAC Pune

Dr G V Rao

Technical Advisor, ProSIM

Registration Form

Name:

Organization:

Address:

Designation:

Email:

Cell Phone:

Phone:

fax:

Details of payment DD No and DateBank

Registration fee

Rs 4000 for participants from industry and R&D labs

Rs 2500 for faculty from engineering colleges

Rs 1000 for students

The payment towards registration fees may be made by a demand draft drawn on any nationalized bank in favor of '**Director, College of engineering Pune**' payable at Pune Maharashtra

And send the same to

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