Workshop On

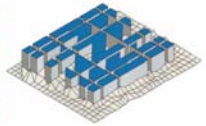
Modern Metal Fatigue Analysis :

An Introduction to FEM based Fatigue Life Calculation & Fracture Mechanics Simulation

ProSIM engineering your designs

fe-safe safe technology by safe technology

ZENTECH



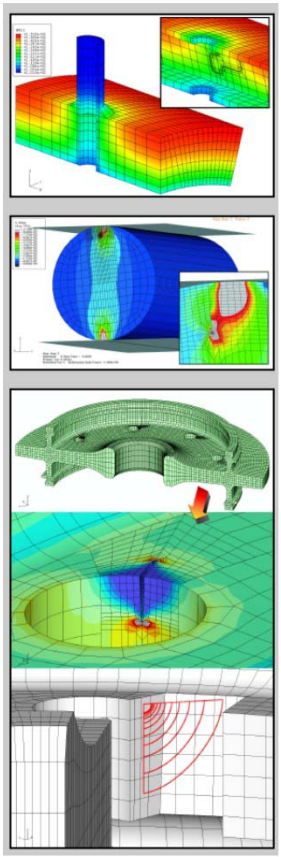
25th June 2010 @ Bangalore

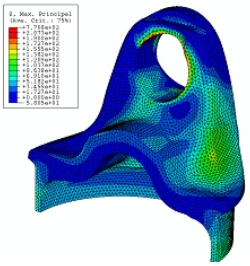
Register Today : contact@pro-sim.com +91 9972304450

Overview: Offers an introduction to modern theories of metal fatigue, Fracture Mechanics Simulation and their practical application through worked examples and interaction/discussion. There is a strong emphasis on what is possible and the pitfalls to avoid.

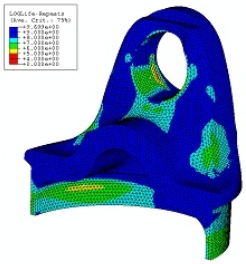
Content:

- Introduction to fatigue
- Local stress-strain fatigue
- Materials data
- Signal analysis for fatigue
- Using stress-life data
- Stress concentrations, stress gradient and notch sensitivity
- Critical distance methods
- Why biaxial fatigue is important
- Modern biaxial fatigue methods
- Fatigue analysis from finite element models
- Statistics & reliability
- Crack growth analysis
- 3D Fracture Mechanics Simulations
- Fatigue of welded joints, including recent 'local' approaches
- Fatigue lives from the PSD
- Fatigue test & design
- Fatigue analysis in practice

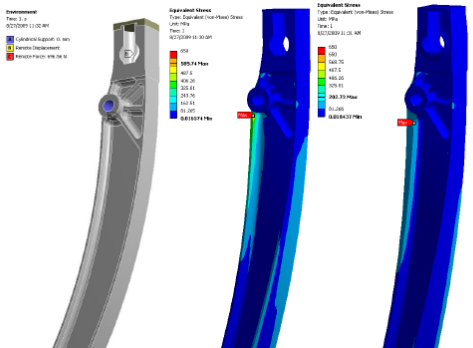




End-Yoke: Plot of Maximum Principal Stress



End-Yoke: Plot of fe-safe™ Log-Life

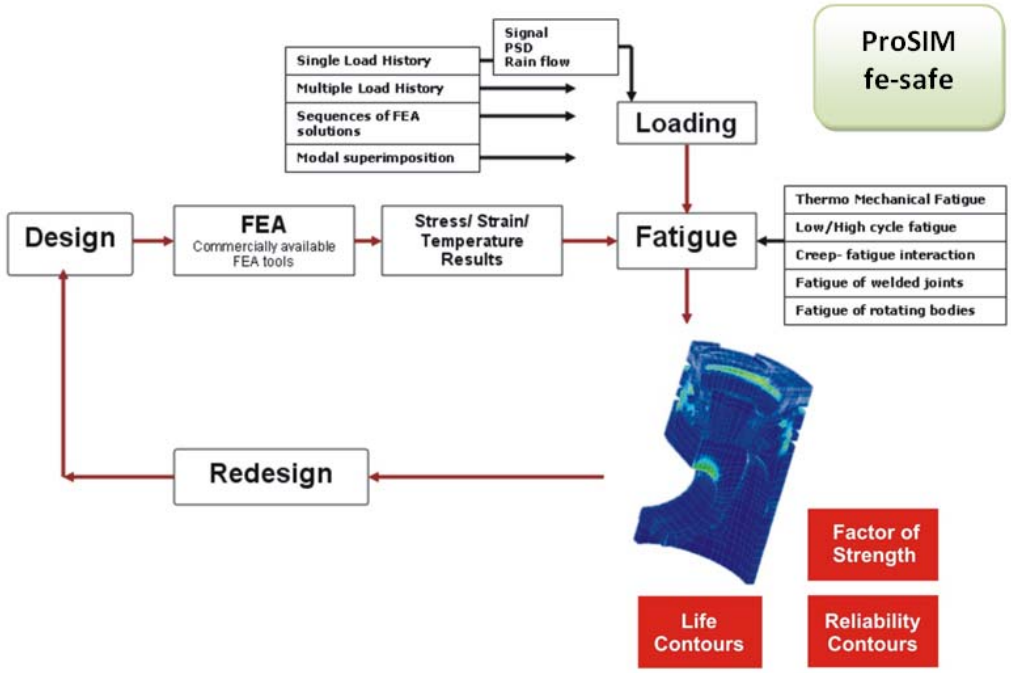


Who should attend: Design and Test Engineers responsible for product durability in the ground vehicle, aerospace and manufacturing industries should attend. No previous knowledge of fatigue is necessary.

Case Studies of **fe-safe (Fatigue, Durability)** & **Zencrack (Fracture Mechanics)** will be presented.

Hands on Training— on **Fatigue & Fracture Calculations** can be organized separately for Interested Participants

Interested Participants can avail **Evaluation Copy of fe-safe & Zencrack**



re-designing a break pedal using ANSYS and fe-safe™ fatigue analysis software.

Registration Details

Industry—Rs 1200-00
R&D Institutions—Rs 1200-00
Faculty Members—Rs 1000-00
Students—Rs 300-00

Registration fee can be paid in the form of DD/Cash/Cheque in favour of **" ProSIM, Bangalore'** Payable at Bangalore .
For any details please contact

Santhosh N L
santhosh@pro-sim.com
+91 9972304450

Kusuma
kusuma@prosim.in
+91 80 23323020

Contact
ProSIM
#4, 1st B Main, 1st N Block
Rajaji Nagar, Bangalore—560010 India
Ph: +91 80 23323020
Fax: +91 80 23323304
Email : contact@pro-sim.com
Web: www.pro-sim.com