

Udy is an independent private research and consulting company specialized in Computational Physics by means of Computer Aided Engineering (CAE) and more specifically the Finite Element and/or Finite Volume Method

Our team has over 30 years experience in simulation technology in hundreds of projects worldwide : simulation based analysis, conceptual modeling, frontloading, simulation of complete lifecycle, virtual prototyping, consulting, and education

Udy partners with best state-of-the art software, augmented by our own programming capabilities to implement your specific needs not available in the standard solvers

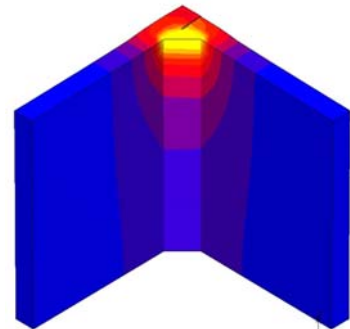
Our knowledge of applied physics and engineering consulting is instrumental for efficient modeling abstraction which captures the essentials of the problem without needless computer load

- Material constitutive behavior without unphysical simplifications
- Correct interpretation of the results

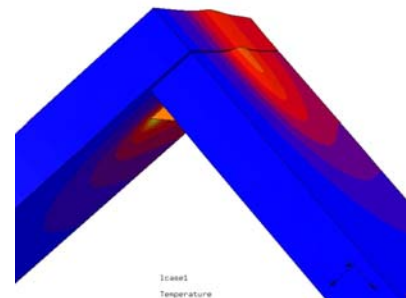
Udy has a fundamental business approach and is committed to increase their customer's profitability by first-time right products and processes which are robust and reliable

Key Products and Services

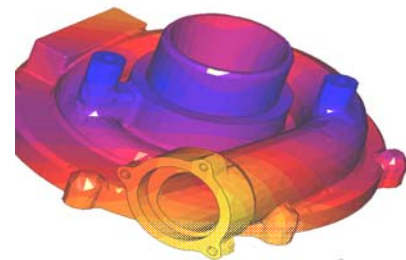
- Computational Mechanics and Thermo-Mechanics
- Micro- and Nano-Mechanics
- Computational Fluid Dynamics and Acoustics
- Combined-Physics, Physics of failure
- Reliability (e.g. Electronic boards) and Durability
- Sound radiation
- Welding simulation



Welding deformation



Scaled Temperature



Turbo machinery

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