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— JuliaCon 2016 | Finite Element Analysis in Julia | Kristoffer Carlsson

What is Finite Element Analysis?
FEA explained for beginners
What's a Tensor? Finite Element Method Understanding Failure Theories (Tresca, von Mises

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~~The Finite Volume Method in CFD~~

FEA 01: What is FEA?

Understanding Aerodynamic Lift

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FEA FEM | Simplified Solution of
1D Structural Problem with all
Steps | Finite Element Analysis
~~Finite Element Analysis of Solids
and Structures Finite Element
Method (FEM) – Finite Element
Analysis (FEA): Easy Explanation
Adaptive Finite Element Methods~~

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of the method are clearly identified, with a chapter given over to each one: approximation, construction of the integral forms, matrix organization, solution of the algebraic systems and architecture of programs. The final chapter lays the foundations for a general

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program, written in Matlab, which can be used to solve problems that are linear or otherwise, stationary or transient, presented in relation to applications stemming from the domains of structural mechanics, fluid mechanics and heat transfer.

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Structural Health Monitoring
(SHM) is the

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Interdisciplinary engineering field devoted to the monitoring and assessment of structural health and integrity. SHM technology integrates non-destructive evaluation techniques using remote sensing and smart materials to create smart self-monitoring

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provides students, engineers and
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to SHM. Contributing to an area which is the subject of intensive research and development, this book offers both theoretical principles and feasibility studies for a number of SHM techniques. Key features: Takes a multidisciplinary approach and provides a

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Generating a quality finite element

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mesh is difficult and often very time-consuming. Mesh-free methods operations can also be complicated and quite costly in terms of computational effort and resources. Developed by the authors and their colleagues, the smoothed finite element method (S-

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Serendipity (FEM) only requires a triangular/tetrahedral mesh to achieve more accurate results, a generally higher convergence rate in energy without increasing computational cost, and easier auto-meshing of the problem domain. Drawing on the authors' extensive

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Research results, Smoothed Finite Element Methods presents the theoretical framework and development of various S-FEM models. After introducing background material, basic equations, and an abstracted version of the FEM, the book

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Discusses the overall modeling procedure, fundamental theories, error assessment matters, and necessary building blocks to construct useful S-FEM models. It then focuses on several specific S-FEM models, including cell-based (CS-FEM), node-based (NS-FEM),

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edge-based (ES-FEM), face-based (FS-FEM), and a combination of FEM and NS-FEM (FEM). These models are then applied to a wide range of physical problems in solid mechanics, fracture mechanics, viscoelastoplasticity, plates, piezoelectric structures, heat

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transfer, and structural acoustics. Requiring no previous knowledge of FEM, this book shows how computational methods and numerical techniques like the S-FEM help in the design and analysis of advanced engineering systems in rapid and cost-effective

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ways since the modeling and simulation can be performed automatically in a virtual environment without physically building the system. Readers can easily apply the methods presented in the text to their own engineering problems for reliable

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