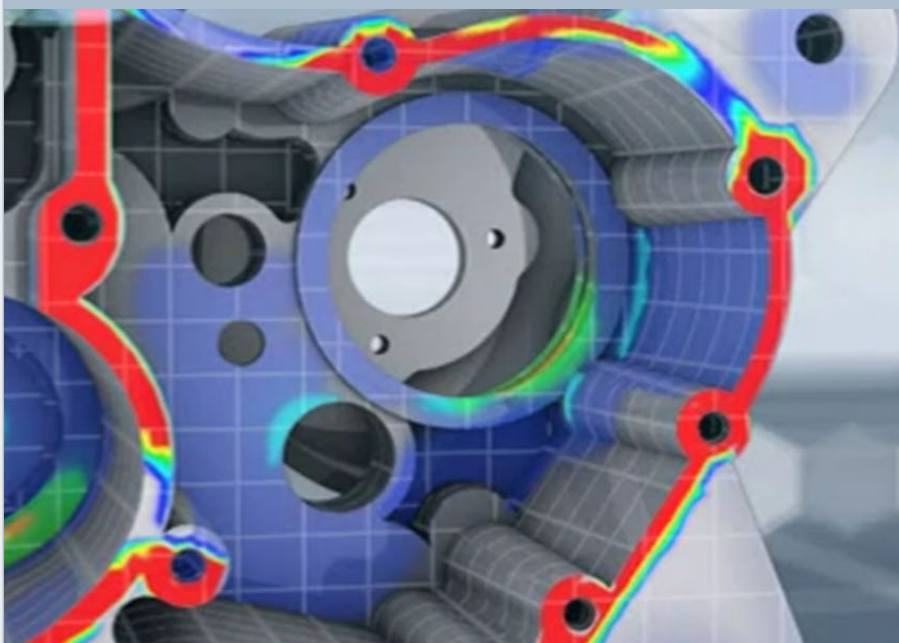


HYPERMESH



HYPERMESH



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Introduction to HYPER MESH

Introduction about Hyper mesh

Introduction to CAD

CAE Application of CAE Software

Advantages and Theory of FEM and Basic engineering and Shortcuts

Geometry

Create node

Node edit

Temp nodes

Distance

Dimensioning

Lines

Line edit

Length

Creation of surfaces and surface edit

Normal Translate and Rotate

MID - SURFACE EXTRACTION

Auto - mid surface Extraction

De - featuring

Quick Edit

GEOMETRY CLEAN - UP

Surface edges

Visualization toolbar

Display toolbar

Clean up using quick edit

2D MESHING

Introduction to meshing

Auto meshing

Size & Biasing

Density and mesh style

Mesh connectivity

Replace and remeshing

Current and surface components



2D MESH QUALITY

Quality criteria

Warpage

Aspect ratio

Jacobian

Skew

Reducing the Trias percentage

QUALITY INDEX

Quality index

T - Connections

Duplicates

Free - edges

MANUAL MESH

Ruled

Spline

Skin

Drag

Elem offset

TOOLS

Color

Rename

Order

Number and mass calculation

Project

Position

3D HEX MESHING

Introduction to 3D meshing

Types of 3D elements

Drag, spin, line drag & Elem offset



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3D SOLID MESH

Solid and solid edit
Solid map commands
Linear mesh
Solid mesh

3D TETRA MESHING

Introduction to tetra mesh
Tetra parameters
Tet collapse
Remeshing

MESH

Introduction to 1D elements
Beam elements, bars, rods
RBE2 & RBE3 elements, welding, Bolt creation

LINEAR MESHING

Introduction to analysis
Create collectors
Material properties
Load constraints
Load steps

MODAL, LINEAR STATIC AND BUCKLING ANALYSIS

Deck preparation
Material and properties assignment
Assign of loads and constraints
Saving the file formats

FINAL PROJECT

