



# ME402 Finite Element Analysis – INTRODUCTION

## - Historical Background

### Present

- Status of FEM as on Today

Theoretical	Software	Practical Applications
<p><b>Till 1994:</b> In India FEM was offered as post graduate course only at few universities</p> <p><b>1995 and onwards:</b> Introduced at graduate level.</p> <p>Theory courses mainly deals with</p> <ol style="list-style-type: none"> <li>1. Various methods to derive [K]</li> <li>2. Assembly of [K]</li> <li>3. Solution Techniques</li> </ol>	<p>Three steps for using any FEA software</p> <ol style="list-style-type: none"> <li>1. <b>Preprocessing</b> <ul style="list-style-type: none"> <li>- Solid modeling</li> <li>- Meshing</li> <li>- Boundary conditions</li> </ul> </li> <li>2. <b>Processing or Solution</b></li> <li>3. <b>Postprocessing</b> <ul style="list-style-type: none"> <li>- Result interpretation</li> </ul> </li> </ol>	<p>CAE groups get following types of job orders</p> <ol style="list-style-type: none"> <li>1. New Design</li> <li>2. Cost cutting / Optimization</li> <li>3. Failure Analysis</li> </ol>

Programming languages used for most commercial softwares are Fortran and C++.

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**SA Dillow**



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