

# 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++.

# No Slide Title

**Judd E. Hollander**



**No Slide Title:**

## Decoding **No Slide Title**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**No Slide Title**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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