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Shell Finite Elements • Shell elements are different from plate elements in that: – They carry membrane AND bending forces – They can be curved • The most simple shell element combines a bending element with a membrane element. – E.g., combines a plate element and a plane stress element.

Plates and Shells

ASSIGNMENT III - THIN PLATES AND SHELLS STRESS ANALYSIS (MSA42AI) Release date: 26/11/2020 Submission date: 02/12/2020 Question 1 [70] A rectangular plate made of aluminium 6061-T6 alloy of dimensions b = 600 mm and d 800 mm along the 2- and y-axes, respectively, that is simply supported at its edges is exposed to pure bending moments M, - 50 kNm and M, - 80 kNm about the two mutually ...

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