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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 x - and y -axes, respectively, that is simply supported at its edges is exposed to pure bending moments $M_x = -50$ kNm and $M_y = -80$ kNm about the two mutually ...

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can be replaced with a set of resultant forces and result

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Supplementary Readings Reference Text. Ugural, A. C. Stresses in Plates and Shells. 2nd ed. New York, NY: McGraw-Hill, 1998. ISBN: 0070657696. Supplementary Readings

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