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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

Part I: Plates and Shells (PDF - 2.0 MB) Part II: Plastic Analysis of Plates and Shells (PDF - 2.2 MB) Supplementary Readings Reference Text. Ugural, A. C. Stresses in Plates and Shells. 2nd ed. New York, NY: McGraw-Hill, 1998. ISBN: 0070657696. Supplementary Readings

Readings | Plates and Shells | Mechanical Engineering ...

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le ce shear components of strain tensor, and E 33 is the through-thickness component of strain tensor. Similarly, displacement vector can be divided into two components: ui = u1 u2 u v" = " u3 w w uα where uα is the in-plane components of the displacement vector, and u 3 = w is the out-of-plane components of the displacement vector and also called as the trans-