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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

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On the relationship between mesh and stress field ...

Stress resultants are simplified representations of the stress state in structural elements such as beams, plates, or shells. The geometry of typical structural elements allows the internal stress state to be simplified because of the existence of a "thickness" direction in which the size of the element is much smaller than in other directions.

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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: $u_i = u_1 \ u_2 \ u_3$ and $v_i = u_3 \ w$ where u_α is the in-plane components of the displacement vector, and $u_3 = w$ is the out-of-plane

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components of the displacement vector and also called as the trans-

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