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Free vibration analysis of uniform and stepped combined paraboloidal, cylindrical and spherical shells with arbitrary boundary conditions

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Highlights

- The free vibration of uniform and stepped combined paraboloidal, cylindrical and spherical shells is investigated by using a semi-analytical method with arbitrary boundary conditions.
- This paper presents a generalized and unified Jacobi-Ritz formulation to investigate the free vibration of uniform and stepped combined structures.
- The paper generalizes the selection of the admissible displacement functions by using the Jacobi polynomial.

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