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The model of feature extraction for free-form surface based on topological transformation

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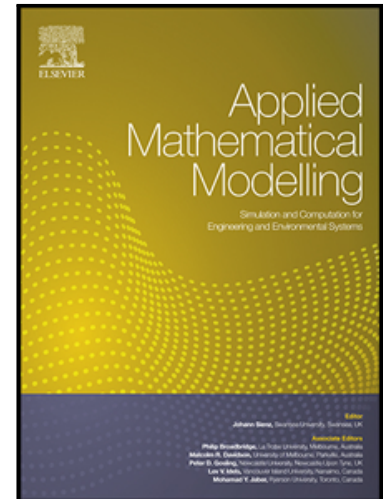
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**Highlights**

1. A topology-based rigid spherical quadrilateral mesh method is proposed in this paper.
2. The nondifferentiable problem of free-form surface is solved based on topological transformation.
3. The model of feature extraction for free-form surface based on topological transformation is built.
4. The tangent bundle of smooth free-form surface manifold is analyzed.

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