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An accurate and efficient algorithm for the simulation of fatigue crack growth based on XFEM and combined approximations

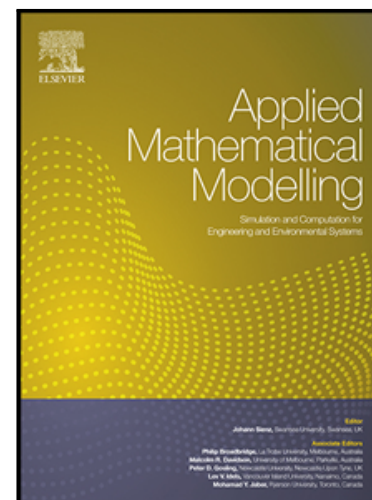
S.Z. Feng , W. Li

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Highlights

- XFEM and CA are combined to deal with fatigue growth analysis.
- Accurate results can be obtained using only a small number of basic vectors.
- The computational effort savings of presented algorithm is significant.

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