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Title: Performance assessment of hazardous materials tankers thermal protection coatings in the presence of defects

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HIGHLIGHTS

- A FEM was developed and validated for the behavior of defective thermal protections
- The model was applied to thermal protections of hazardous material tankers
- Key performance indicators (KPIs) were defined to assess thermal protection performance
- The influence of typical defect sizes on protection performance was investigated
- Application of KPIs to support inspection-based maintenance of coatings was addressed

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