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Fatigue and Fracture Mechanics of Offshore Structures

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The tubular welded joints used in the construction of offshore structures can experience millions of variable amplitude load cycles during their service life. Such fatigue loading represents a main cause of degradation in these structures. As a result, fatigue is an important consideration in their design. Fatigue and Fracture Mechanisms of Offshore Structures present novel research and the results of wave-induced stress on the operational life of offshore structures.

Containing results of an investigation undertaken to assess the fatigue and fracture performance of steels used in the offshore industry, *Fatigue and Fracture Mechanics of Offshore Structures* includes,

- Stress analysis of tubular joints
- Fatigue design
- Fatigue loading in Jackup structures
- Jack-up dynamic response
- Modelling of wave loading
- Test specimen considerations
- The stress intensity factor concept
- Variable amplitude crack growth models
- Consideration of sequence effects
- Sea state probability model

The important research in this book will be of interest to those dealing with a wide range of engineering structures - from bridges and buildings to masts and pipelines, as well as fatigue and fracture specialists, and those concerned with materials technology.

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