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Wave Loads on Offshore Structure

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The ocean is rich in resources, such as oil, gas, wave power, and wind power. The development of these resources heavily relies on different types of offshore structures, including various platforms and fixed or floating structures. In addition, the development of coastal cities also demands the construction of more sea-crossing transportation structures, including underwater tunnels, sea bridges and breakwaters. These offshore structures face challenges in the complex ocean environment, where the impact of waves and currents remains a primary factor leading to structural damage. Despite numerous studies on wave and current loads, the field still presents many unresolved issues and remains one of the most important topics in ocean engineering. Further research would deepen our understanding of hydrodynamic loads, enabling better guidance for engineering applications and enhancing the safety design and operation of offshore structures.

Thus, this Special Issue aims to highlight recent advances in wave and current loads on offshore structures, the dynamics of these structures under such loads, and the corresponding vibration mitigation methods.

