

<<水弹性理论及其在超大型浮式结构物上>>

图书基本信息

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内容概要

With the fast increase of the population on earth , the supply of resources from land is approaching the limit. More and more people have realized that in order to achieve a sustainable economic development , the resources in the ocean have to be relied on. This is because in the wide ocean whose area exceeds more than two thirds of the earth surface , there exist very rich resources such as sea chemical elements , minerals under the bottom , tidy energy and ocean biological resources. The 21st century is a century of ocean. Many new industries such as ocean oil and gas , ocean chemical industry , deep-sea mining will be formed. In the exploitation of ocean resources and in the utilization of ocean spaces , the international marine community renewed the interest in studying the feasibility of using very large floating structures (VLFS) . In order to ensure their safety at sea , their structural responses in the sea are of particular importance. This is fundamentally a hydroelasticity problem. Due to their extreme large sizes , it is a great challenge both in theory and computational efficiency.

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