

عنوان مقاله:

Applications and design aspects of Very Large Floating Structures for land creation from the sea

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خلاصه مقاله:

As population and urban development expand in land-scare island countries, city planners and engineers resort to land reclamation to ease the pressure on existing heavily-used land and underground spaces. Countries such as the Netherlands, Singapore and Japan, have expanded their land areas significantly through aggressive land reclamation programs. The very large floating structures (VLFS) may offer an attractive alternative solution for birthing land from the sea. Very large floating structures can be constructed to create floating airports, bridges, breakwaters, piers and docks, storage facilities. This paper is present applications and design aspects of very large floating structures for land creation from the sea. Also, history of floating structures and advantages of VLFS are investigated. Finally, a .review of the finite element modeling for these structures is presented

کلمات کلیدی:

Very Large Floating Structures, design aspects, semisubmersible, pontoon, offshore Structures

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