

عنوان مقاله:

Dynamic Analysis of TLP in Intact and Damaged Tendon Conditions

محل انتشار:

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خلاصه مقاله:

Stability of Tension Leg Platforms (TLP) is sensitive to tendons situations. Therefore, behavior and exact calculation of stiffness matrix of TLP is important for dynamic analysis and investigation of TLP in intact and damaged tendon conditions is necessary to accurate and reliable design of TLP. In this paper deals with dynamic analysis of TLP when tendons are intact and one or three tendons are damaged. Static stability of TLP in damage condition has been studied and static offsets have been estimated, then stiffness of surge, heave and pitch has been derived. Finally, responses of heave and pitch for three load conditions have been predicted.

کلمات کلیدی:

TLP, damage condition, tendon

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