



STUDY OF SEISMIC ISOLATION OF MECHANICAL CONTINUOUS UNLOADER BY EARTHQUAKE REPLY ANALYSIS

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ABSTRACT: A generic vibration model for analyzing the design of a mechanical continuous unloader of the harbor facilities was constructed. It optimizes the design on the basis of vibration measurements to obtain rigidity of the main portion of the unloader. The objective is to design an aseismic device that is immune to damage or collapse during a major earthquake. This analytical approach was demonstrated to be an efficient way to optimize the specifications of an aseismic device and to verify its effectiveness.

Key Words: Earthquake, Analysis, Unloader, Design Optimization Method, Aseismic