

INFLUENCE OF EARTHQUAKE PARAMETERS ON TRIBOLOGICAL PROPERTIES OF FRICTION PENDULUM BEARINGS (SEISMO INSULATORS)

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Frictional pendulum bearings (FPB) have the universal properties satisfying various requirements at operation of buildings, bridges and industrial constructions. The dynamic periods of oscillations from 1 up to 5 s, displacement up to 1,5 m, high bearing capacity and damping can be provided. Bearings can maintain vertical loading up to 13,5 thousand tons and have the minimal cost of a structure. In the paper the information on influence of earthquakes and other forces influenced on FPB characteristics, used as seismo-insulators in oil platforms of the project "Sakhalin - 2" are represented.

Earthquake, seismo-insulation, friction, pendulum sliding bearings, antifrictional materials, tribological properties, thermal condition, lifetime

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