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BO'YLAMA KUCH TA'SIRIDA STERJINDA TO'LQIN TARQALISHI

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ANNOTATSIYA

Elastik jismlarga tashqi kuch ta'sir qilganda jism bo'ylab to'lqinlar tarqaladi. Bu maqolada qistirib mahkamlangan elastik sterjinga bo'ylama kuch ta'sir qilganda jismda hosil bo'ladigan bo'ylama to'lqin tarqalishi tenglamasi va uning yechimi qaralgan. Bu yechim hozirgi kunda juda katta ahamiyatga ega bo'lib, elastik jismlarga ko'plab kuchlarning tasirida hosil bo'lgan to'lqinlar jismni tezda yemirilish, yorilish va sinishga olib kelishi mumkin.

Kalit so'zlar: Bo'ylama to'lqin, elastik jismlarga tashqi kuch ta'siri, to'lqin tarqalishi, sterjinlarda to'lqin tarqalishi.

WAVE DISTRIBUTION IN STERGIN UNDER LEGAL FORCE

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ABSTRACT

When an external force acts on an elastic body, waves propagate through the body. This paper discusses the equation of longitudinal wave propagation in a body under the action of a longitudinal force on a clamped elastic rod and its solution. This solution is of great importance today, as waves generated by many forces on elastic bodies can cause the body to rapidly collapse, crack, and break.

Keywords: Longitudinal wave, the effect of external forces on elastic bodies, wave propagation, wave propagation in rods.