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Determination of the cholinesterase activity of the blood.
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*

S/169/62/000/009/017/120
D228/D307

AUTHOR: Sandi, H.

TITLE: Reaction between the ground and a building at the
time of seismic stress

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 9, 1962, 22, ab-
stract 9A138 (Studii si cercetari astron. si seismol.,
6, no. 2, 1961, 441-452 (Rum.; summaries in Russ. and
Fr.))

TEXT: A theoretical method is stated for investigating the reac-
tion between the ground and a building at the time of seismic
stress. The directions of investigating the ground movement chan-
ges caused by the presence of a building are indicated. Integral
equations are derived for the movement of ground, and methods are
given for their solution. The spectrum of ground vibrations is
studied. /-Abstracter's note: Complete translation. /

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R/008/60/000/004/011/018
A125/A126

24.4200 1103, 13 27

AUTHOR: Sandi, Horea

TITLE: The equations of elastic thin bars - II

PERIODICAL: Studii și Cercetări de Mecanică Aplicată, no. 4, 1960, 957 - 981

TEXT: The relations established in the first part of this paper, published in no. 2, 1960, of this periodical, permit the deduction of the equations of linear dynamics and of the stability of the bars. The author presents the relations by expressing the dynamic functions of a bar (quantity of motion, kinetic moment, kinetic energy, Lagrangian and Hamiltonian), and the flow of energy along the bar. He describes the motion of the bar by means of differential and also of integral relations. The differential relations (vectorial and scalar) are deduced by applying the torus theorem, the Lagrangian and the Hamiltonian equations. Because of the functional torus expressions of the static displacements, one gets the simple integral equations of the dynamics. Through the dynamical theorem of reciprocity, the author obtains the functional torus

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R/008/60/000/004/011/018
A125/A126

The equations of elastic thin bars - II

expressions of the displacements in the form of a double integral. He eliminates the connection between the influencing tori, statics and dynamics. Furthermore, he presents the method of formulating the linear problems of the bar movement. The effects of the non-linearity of the bar equations are made evident through an examination of the first approximation; this examination presents two problems: - the determination of the range of evolutionary stability of the bar, and the calculation on the inside of the stability range, corrected from the non-linearity effects. Starting from the definitions of local stability, equilibrium and motion, the author presents methods making it possible to deduce the stability equations as well as the first variations of the non-linear equations around the non-deformed position of the bar. The equations of the equilibrium stability are given in the differential and in the integral form. The author has calculated the statical functions, which make it possible to determine the proper values by means of the problem of "related extreme". To determine the range of motion stability, he gives some equivalent equation systems. These systems, which represent the first variations of the motion equations, lead to

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A125/A126

The equations of elastic thin bars - II

the respective methods: to a linear system of common 2nd order differential, to a linear integral system of Volterra type, and to a linear system of common 1st order differential. There are 10 Soviet-bloc references.

ASSOCIATION: Institutul de cercetari in constructie si economia constructiilor
(INCERC) (Research Institute of Constructions and Construction
Economy)

SUBMITTED: January 22, 1960

Card 3/3

SANDI, H.

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astron seismol 6 no.2:441-452 '61.

1. Institutul de cercetari pentru constructii si economia
constructiilor (INCERC).

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A bibliographic study on the engineering seismology; summary.
Studii astron seismol 6 no.2:453-455 '61.

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Effect of vibroinsulating elements. Studii cerc mec apl 12 no.4:
877-882 '61.

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(Structures, Theory of) (Wind pressure)

Reel # 486

Sandi, Kh.

END