

TABLE OF CONTENTS

Bazhenov V.A., Lizunov P.P., Solodei I.I.
 The computation of reinforced concrete structures on the basis of the evolution of reinforcement interaction with concrete. 3

Bazhenov V.A., Shishov O.V.
 Specialized program facilities implementation during teaching of structural mechanic 10

Guliar A.I., Pyskunov S.O., Shkril' A.A.
 Prismatic finite element on the basis of moment finite elements schemes 19

Vorona Yu.V., Kozak A.A., Chernenko O.S
 Boundary element technique for the analysis of 2d dynamic stress-strained state of elastic solids 27

Lizunov P.P.
 Oscillations of spherical shell in the central force field 37

Lehostayev A.D., Grechukh N.A.
 Technique to study stretched membranes in shock and impulse action 43

Grigorieva L.O., Kirichenko A.A., Babkova N.O.
 Definition of electromotive force of polarized on thickness annular plates under mechanical perturbation 47

Ulitin G., Tsarenko S.
 Impact of conical rod on hard limiter 56

Andriievskiy V., Maximjuk Yu.
 Technique of solution of axisymmetric stationary heat conduction and thermoelasticity problem based on MSFE 64

Dang Xuan Truong, Tran Duc Chinh
 A method of determining the coordinates of the stiffness center and the stiffness principal axis of the vibrating system with damping 73

<i>Kharchenko V.V., Katok O.A., Makaev A.H., Kondratenko I.S.</i> Influence of the disk-shaped microspecimen geometry on the characterization of the mechanical properties of steel 45	84
<i>Vorona Yu.V., Luk'yanchenko O.O., Kostina O.V.</i> Parametric resonanse in statically indeterminate frames	91
<i>Luk'yanchenko O.O., Kostina O.V., Gerashchenko O.V.</i> Influence of loading is from a rolling stock on the dynamic behavior of multi- storey building.	100
<i>Bazhenov V.A., Pogorelova O.S., Postnikova T.G.</i> Application of parameter continuation method for investigation of vibroimpact systems dynamic behaviour. problem state. short survey of world scientific literature	110
<i>Levkivskiy D.V., Yansons M.O.</i> The method of lines in a cylindrical coordinate system.	118
<i>ShkriI' A.</i> Definition of stress intensity factor for two-dimensional bodies under thermal load	125
<i>Kharchenko V.V., Ban'ko S.N., Kobelsky S.V., Kravchenko V.I.</i> Numerical desition of the problem of the stretching of a hollow cylinder with a defect in the form of a cavity with a crack in the elastic-plastic formulation	134
<i>Vorona Yu.V., Kara I.D.</i> Propagation of cylindrical waves in poroelastic media.	146
<i>Solodey I.I., Vabishchevych M.O.</i> The formulation of nonlinear deformation and fracture of heterogeneous 3D bodies subject to the emergence and spread of cracks under dynamic loading	153