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Kişisel Bilgiler

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Yabancı Diller

Rusça, C1 İleri

İngilizce, C1 İleri

Araştırma Alanları

Katı Cisimler Mekaniği, İnşaat Mühendisliği, Mekaniğin Yapı Mekaniği, Makina Mühendisliği, Makina Teorisi ve Dinamiği, Mekaniğin Titreşimler, Mekaniğin Kırılma Mekaniği, Sonlu Elemanlar Yöntemi, Sürekli Ortam Mekaniği, Matematik, Kısmi diferansiyel eşitlikler, Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Makina, Makina Mühendisliği, 1993 - Devam Ediyor

Verdiği Dersler

ELASTİSİTE TEORİSİNE GİRİŞ, Doktora, 2016 - 2017

MÜHENDİSLİK MATEMATİĞİ, Yüksek Lisans, 2016 - 2017

PLAK TİTREŞİMLERİNİN ANALİZİNDE NÜMERİK VE YAKLAŞIK YÖNTEMLER, Doktora, 2016 - 2017

Yönetilen Tezler

Sezer S., AKBAROV S., Piezoelektrik katmanlı öngerilmeli sistemlerde yüzey ve lamb dalgalarının dispersiyonu, Doktora, İ.KURT(Öğrenci), 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Axisymmetric forced vibration of the hydro-elastic system consisting of a pre-strained highly elastic plate and compressible viscous fluid**
D.AKBAROV S., Imamaliyeva J. N.

Journal of Sound and Vibration, cilt.598, 2025 (SCI-Expanded)

- II. **Dispersion of axisymmetric longitudinal waves propagating in an inhomogeneous prestressed hollow cylinder immersed in an inviscid compressible fluid**
D.AKBAROV S., Bagirov E. T.
Journal of Sound and Vibration, cilt.569, 2024 (SCI-Expanded)
- III. **THE INFLUENCE OF THE INHOMOGENEOUS INITIAL STRESSES IN THE HOLLOW CYLINDER CONTAINING AN INVISCID FLUID ON THE DISPERSION OF THE QUASI-SCHOLTE WAVES PROPAGATING IN THIS CYLINDER**
D.AKBAROV S., Valiyev G., Aliyev S. A., Khankishiyev Z.
Applied and Computational Mathematics, cilt.23, sa.1, ss.18-39, 2024 (SCI-Expanded)
- IV. **Dispersion of the axisymmetric waves propagating in the hydro-elastic system consisting of the pre-strained highly elastic plate, compressible inviscid fluid, and rigid wall**
D.AKBAROV S., Bagirov E. T.
ARCHIVE OF APPLIED MECHANICS, cilt.93, sa.2, ss.861-879, 2023 (SCI-Expanded)
- V. **The influence of the coupling effect of physical-mechanical fields on the forced vibration of the hydro-piezoelectric system consisting of a PZT layer and a viscous fluid with finite depth**
Kuzeci Z. E., D.AKBAROV S.
Structural Engineering and Mechanics, cilt.85, sa.2, ss.247-263, 2023 (SCI-Expanded)
- VI. **Vibration of a Two-Layer "Metal+PZT" Plate Contacting with Viscous Fluid**
Kuzeci Z. E., D.AKBAROV S.
Computers, Materials and Continua, cilt.74, sa.2, ss.4337-4362, 2023 (SCI-Expanded)
- VII. **The dispersion of the axisymmetric waves propagating in the pre-strained highly elastic plate under bi-lateral contact with a fluid**
D.AKBAROV S., Bagirov E.
WAVES IN RANDOM AND COMPLEX MEDIA, 2022 (SCI-Expanded)
- VIII. **3D Nonaxisymmetric Local Stability Loss of a Hollow Cylinder Made of an Anisotropic Viscoelastic Material**
D.AKBAROV S., Anwar M. Y., KÜTÜĞ Z.
MECHANICS OF COMPOSITE MATERIALS, cilt.58, sa.4, ss.483-498, 2022 (SCI-Expanded)
- IX. **Attenuation of quasi-Lamb waves in a hydroelastic system "elastic plate plus compressible viscous fluid plus rigid wall"**
D.AKBAROV S., Negin M.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.81, sa.4, ss.443-459, 2022 (SCI-Expanded)
- X. **Mathematical modeling of the dynamics of a hydroelastic system-A hollow cylinder with inhomogeneous initial stresses and compressible fluid**
Akbarov S. D., Sevdimaliyev Y. M., Valiyev G. J.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.9, ss.7858-7872, 2021 (SCI-Expanded)
- XI. **Dispersion of Torsional Waves in a Hollow Bilayered Cylinder with Initial Inhomogeneous Thermal Stresses**
Akbarov S., Bagirov E. T.
MECHANICS OF COMPOSITE MATERIALS, cilt.57, sa.2, ss.161-180, 2021 (SCI-Expanded)
- XII. **The dispersion of the axisymmetric longitudinal waves propagating in the bi-layered hollow cylinder with the initial inhomogeneous thermal stresses**
Akbarov S., Bagirov E. T.
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- XIII. **Torsional wave dispersion in a bi-layered hollow cylinder with inhomogeneous initial stresses caused by internal and external radial pressures**
Akbarov S. D., Bagirov E. T.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.77, sa.5, ss.571-586, 2021 (SCI-Expanded)
- XIV. **DYNAMICS OF THE MOVING RING-LOAD ACTING IN THE INTERIOR OF THE BI-LAYERED HOLLOW CYLINDER WITH IMPERFECT CONTACT BETWEEN THE LAYERS**

- Akbarov S., Mehdiyev M. A., Zeynalov A. M.
TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS, cilt.12, sa.2, ss.223-242, 2021 (SCI-Expanded)
- XV. **The Influence of Imperfect Contact Conditions between Layers of a Hollow Sandwich Sphere on its Natural Frequencies**
Sevdimaliyev Y. M., Akbarov S., Yahnioğlu N.
MECHANICS OF COMPOSITE MATERIALS, cilt.56, ss.541-554, 2020 (SCI-Expanded)
- XVI. **ON THE NATURAL OSCILLATION OF AN INHOMOGENEOUSLY PRE-STRESSED MULTILAYERED HOLLOW SPHERE FILLED WITH A COMPRESSIBLE FLUID**
Sevdimaliyev Y. M., Akbarov S., Guliyev H. H., Yahnioglu N.
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.19, sa.1, ss.132-146, 2020 (SCI-Expanded)
- XVII. **3D FEM Analysis of Buckling Delamination of a Piezoelectric Sandwich Rectangular Plate with Interface Edge Cracks**
Aylıkcı F., Akbarov S., Yahnioğlu N.
MECHANICS OF COMPOSITE MATERIALS, cilt.55, sa.6, ss.797-810, 2020 (SCI-Expanded)
- XVIII. **Dispersion of axisymmetric longitudinal waves in a "hollow cylinder plus surrounding medium" system with inhomogeneous initial stresses**
Akbarov S. D., Bagirova E. T.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.72, sa.5, ss.597-615, 2019 (SCI-Expanded)
- XIX. **Influence of prestress on the natural frequency of a fluid-filled FGM sphere**
Akbarov S., Çilli A., Yahnioğlu N.
EMERGING MATERIALS RESEARCH, cilt.8, sa.4, ss.663-667, 2019 (SCI-Expanded)
- XX. **On attenuation of the seismic Rayleigh waves propagating in an elastic crustal layer over viscoelastic mantle**
Negin M., AKBAROV S.
JOURNAL OF EARTH SYSTEM SCIENCE, cilt.128, sa.7, 2019 (SCI-Expanded)
- XXI. **3D Dynamics of the Oscillating-Moving Load Acting in the Interior of the Hollow Cylinder Surrounded with Elastic Medium**
Akbarov S., Mehdiyev M. A.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.71, sa.6, ss.713-738, 2019 (SCI-Expanded)
- XXII. **The influence of the rheological parameters on the dispersion of the flexural waves in a viscoelastic bi-layered hollow cylinder**
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- XXIII. **Axisymmetric longitudinal wave dispersion in a bi-layered circular cylinder with inhomogeneous initial stresses**
Akbarov S., Bagirov E. T.
JOURNAL OF SOUND AND VIBRATION, cilt.450, ss.1-27, 2019 (SCI-Expanded)
- XXIV. **Forced Vibration of the Non-Homogeneously Pre-Stressed System Consisting of the Hollow Cylinder and Surrounding Medium**
Akbarov S., Bagirov E. T.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.121, ss.315-348, 2019 (SCI-Expanded)
- XXV. **Dynamics of the Moving Ring Load Acting in the System "Hollow Cylinder plus Surrounding Medium" with Inhomogeneous Initial Stresses**
Akbarov S. D., Bagirov E. T., ÖZİŞİK M.
CMC-COMPUTERS MATERIALS & CONTINUA, cilt.61, sa.2, ss.503-534, 2019 (SCI-Expanded)
- XXVI. **Buckling delamination of a PZT/Metal/PZT sandwich rectangular thick plate containing interface inner band cracks**
Aylıkcı F., Akbarov S., Yahnioglu N.
COMPOSITE STRUCTURES, cilt.202, ss.9-16, 2018 (SCI-Expanded)
- XXVII. **FORCED VIBRATION OF THE HYDRO-VISCOELASTIC AND -ELASTIC SYSTEMS CONSISTING OF THE VISCOELASTIC OR ELASTIC PLATE, COMPRESSIBLE VISCOUS FLUID AND RIGID WALL: A REVIEW**

- Akbarov A.
Applied And Computational Mathematics, cilt.17, ss.221-245, 2018 (SCI-Expanded)
- XXVIII. **The influence of initial stresses on energy release rate and total electro-mechanical potential energy for penny-shaped interface cracks in PZT/Elastic/PZT sandwich circular plate-disc**
AKBAROV S., Cafarova F., YAHNIOĞLU N.
SMART STRUCTURES AND SYSTEMS, cilt.22, sa.3, ss.259-276, 2018 (SCI-Expanded)
- XXIX. **Three-dimensional dynamics of the moving load acting on the interior of the hollow cylinder surrounded by the elastic medium**
AKBAROV S., MEHDIYEV M. A., OZISIK M.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.67, sa.2, ss.185-206, 2018 (SCI-Expanded)
- XXX. **The Influence of the Viscoelasticity on the Axisymmetric Wave Attenuation in a bi-Material Solid Cylinder**
KOÇAL T., AKBAROV S.
ACTA PHYSICA POLONICA A, cilt.134, sa.1, ss.135-138, 2018 (SCI-Expanded)
- XXXI. **The Discrete-Analytical Solution Method for Investigation Dynamics of the Sphere with Inhomogeneous Initial Stresses**
AKBAROV S., Guliyev H. H., Sevdimaliyev Y. M., YAHNIOĞLU N.
CMC-COMPUTERS MATERIALS & CONTINUA, cilt.55, sa.2, ss.359-380, 2018 (SCI-Expanded)
- XXXII. **Influence of initial stresses on the critical velocity of the moving load acting in the interior of the hollow cylinder surrounded by an infinite elastic medium**
AKBAROV S., Mehdiyev M. A.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.66, sa.1, ss.45-59, 2018 (SCI-Expanded)
- XXXIII. **The influence of the rheological parameters of a hydro-viscoelastic system consisting of a viscoelastic plate, viscous fluid and rigid wall on the frequency response of this system**
AKBAROV S., ISMAILOV M. I.
JOURNAL OF VIBRATION AND CONTROL, cilt.24, sa.7, ss.1341-1363, 2018 (SCI-Expanded)
- XXXIV. **THE EFFECT OF VISCOSITY OF A FLUID ON THE FREQUENCY RESPONSE OF A VISCOELASTIC PLATE LOADED BY THIS FLUID**
Zamanov A. D., Ismailov M. I., Akbarov S.
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- XXXV. **The Influence of the Imperfectness of Contact Conditions on the Critical Velocity of the Moving Load Acting in the Interior of the Cylinder Surrounded with Elastic Medium**
ÖZİŞİK M., MEHDIYEV M. A., Akbarov S.
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- XXXVI. **Calculation and 3D analyses of ERR in the band crack front contained in a rectangular plate made of multilayered material**
DINCEL A. T., AKBAROV S.
OPEN CHEMISTRY, cilt.16, sa.1, ss.516-519, 2018 (SCI-Expanded)
- XXXVII. **The Interface Stress Field in the Elastic System Consisting of the Hollow Cylinder and Surrounding Elastic Medium Under 3D Non-Axisymmetric Forced Vibration**
AKBAROV S., Mehdiyev M. A.
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- XXXVIII. **Generalized Rayleigh Wave Dispersion in a Covered Half-space Made of Viscoelastic Materials**
AKBAROV S., Negin M.
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- XXXIX. **The forced vibration of the system consisting of an elastic plate, compressible viscous fluid and rigid wall**
AKBAROV S., ISMAILOV M. I.
JOURNAL OF VIBRATION AND CONTROL, cilt.23, sa.11, ss.1809-1827, 2017 (SCI-Expanded)
- XL. **Forced vibration of the elastic system consisting of the hollow cylinder and surrounding elastic medium under perfect and imperfect contact**

- AKBAROV S., Mehdiyev M. A.
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- XLII. **Three-dimensional analysis of the natural vibration of the three-layered hollow sphere with middle layer made of FGM**
AKBAROV S., GULIYEV H. H., YAHNIOĞLU N.
Structural Engineering and Mechanics, cilt.61, sa.5, ss.563-576, 2017 (SCI-Expanded)
- XLIII. **Buckling delamination of the PZT/Metal/PZT sandwich circular plate-disc with penny-shaped interface cracks**
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- XLIV. **On the attenuation of the axisymmetric longitudinal waves propagating in the bi-layered hollow cylinder made of viscoelastic materials**
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- XLV. **Mathematical modelling and 3D FEM analysis of the influence of initial stresses on the ERR in a band crack's front in the rectangular orthotropic thick plate**
Dincel A., AKBAROV S.
Computers, Materials and Continua, cilt.53, sa.3, ss.249-270, 2017 (SCI-Expanded)
- XLVI. **Near-surface waves in a system consisting of a covering layer and a half-space with imperfect interface under two-axial initial stresses**
AKBAROV S., Negin M.
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- XLVII. **On the dispersion of the axisymmetric longitudinal wave propagating in a bi-layered hollow cylinder made of viscoelastic materials**
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- XLVIII. **Dynamics of the oscillating moving load acting on the hydro-elastic system consisting of the elastic plate, compressible viscous fluid and rigid wall**
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- XLIX. **On the total electro-mechanical potential energy and energy release rate at the interface crack tips in an initially stressed sandwich plate-strip with piezoelectric face and elastic core layers**
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- L. **INFLUENCE OF THE INTERACTION BETWEEN FIBERS PERIODICALLY LOCATED IN A COMPOSITE MATERIAL ON THE DISTRIBUTION OF STRESSES IN IT**
Akbarov S., Köşker R., Uçan Y.
MECHANICS OF COMPOSITE MATERIALS, cilt.52, ss.243-256, 2016 (SCI-Expanded)
- LI. **The influence of the initial stresses on Lamb wave dispersion in pre-stressed PZT/Metal/PZT sandwich plates**
Kurt İ., Akbarov S., Sezer S.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.58, ss.347-378, 2016 (SCI-Expanded)
- LII. **Natural vibration of the three-layered solid sphere with middle layer made of FGM: three-dimensional approach**
AKBAROV S., Guliyev H. H., YAHNIOĞLU N.
STRUCTURAL ENGINEERING AND MECHANICS, cilt.57, sa.2, ss.239-263, 2016 (SCI-Expanded)
- LIII. **Dispersion of Axisymmetric Longitudinal Waves in A Bi-Material Compound Solid Cylinder Made of Viscoelastic Materials**
AKBAROV S., Kocal T., KEPCELER T.
CMC-COMPUTERS MATERIALS & CONTINUA, cilt.51, sa.2, ss.105-143, 2016 (SCI-Expanded)
- LIV. **FREQUENCY RESPONSE OF A PRE-STRESSED METAL ELASTIC PLATE UNDER COMPRESSIBLE VISCOUS**

FLUID LOADING

AKBAROV S., ISMAILOV M. I.

APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.15, sa.2, ss.172-188, 2016 (SCI-Expanded)

- LIV. **Lamb wave dispersion in a PZT/metal/PZT sandwich plate with imperfect interface**
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- LV. **On the Discrete-Analytical Solution Method of the Problems Related to the Dynamics of Hydro-Elastic Systems Consisting of a Pre-Strained Moving Elastic Plate, Compressible Viscous Fluid and Rigid Wall**
AKBAROV S., PANAKHH P. G.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.108, sa.2, ss.89-112, 2015 (SCI-Expanded)
- LVI. **Time-Harmonic Lamb Problem for a System Consisting of a Prestressed Piezoelectric Covering Layer and a Prestressed Half-Plane**
Akbarov S., İlhan N., Koç N.
MECHANICS OF COMPOSITE MATERIALS, cilt.51, sa.4, ss.427-436, 2015 (SCI-Expanded)
- LVII. **EFFECT OF IMPERFECT CONTACT ON THE DISPERSION OF GENERALIZED RAYLEIGH WAVES IN A SYSTEM CONSISTING OF A PRESTRESSED LAYER AND A PRESTRESSED HALF-PLANE**
AKBAROV S., Negin M., Ipek C.
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- LVIII. **On the torsional wave dispersion in a hollow sandwich circular cylinder made from viscoelastic materials**
AKBAROV S., KEPCELER T.
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- LIX. **Influence of an Imperfection of Interfacial Contact on the Dispersion of Flexural Waves in a Compound Cylinder**
Akbarov S., Ipek C.
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- LX. **3D dynamics of a prestressed stratified half-space under the action of an oscillating moving load**
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- LXI. **Dynamics of the moving load acting on the hydro-elastic system consisting of the elastic plate, compressible viscous fluid and rigid wall**
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- LXII. **Generalized Rayleigh Wave Dispersion Analysis in a Pre-stressed Elastic Stratified Half-space with Imperfectly Bonded Interfaces**
Negin M., AKBAROV S., Erguven E.
CMC-COMPUTERS MATERIALS & CONTINUA, cilt.42, sa.1, ss.25-61, 2014 (SCI-Expanded)
- LXIII. **Time-Harmonic Lamb Problem for a System Consisting of an Imperfectly Bonded Orthotropic Covering Layer and an Orthotropic Half-Plane**
Akbarov S., ILHAN N.
MECHANICS OF COMPOSITE MATERIALS, cilt.50, sa.2, ss.177-186, 2014 (SCI-Expanded)
- LXIV. **Axisymmetric time-harmonic Lamb's problem for a system comprising a viscoelastic layer covering a viscoelastic half-space**
Akbarov S.
MECHANICS OF TIME-DEPENDENT MATERIALS, cilt.18, sa.1, ss.153-178, 2014 (SCI-Expanded)
- LXV. **Forced Vibrations of a System Consisting of a Pre-strained Highly Elastic Plate under Compressible Viscous Fluid Loading**
AKBAROV S., ISMAILOV M. I.
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- LXVI. **Flexural Wave Dispersion in Bi-material Compound Solid and Hollow Circular Cylinders**

- AKBAROV S.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.97, sa.5, ss.407-424, 2014 (SCI-Expanded)
- LXVII. **A 3D FEM Analysis of Buckling Delamination of a Rectangular Plate with an Inner Rectangular Crack under a Biaxial Compressive Force**
AKBAROV S., YAHNIOĞLU N., KARATAŞ E. E.
MECHANICS OF COMPOSITE MATERIALS, cilt.49, sa.6, ss.585-594, 2014 (SCI-Expanded)
- LXVIII. **Buckling Delamination of a Rectangular Viscoelastic Sandwich Plate Containing Interface Inner Cracks**
Akbarov S., Yahnioğlu N., Tekin A.
JOURNAL OF ENGINEERING MECHANICS, cilt.140, sa.1, ss.134-148, 2014 (SCI-Expanded)
- LXIX. **Buckling delamination of a rectangular sandwich plate containing inner cracks under biaxial loading**
Akbarov S., Yahnioğlu N., Tekin A.
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- LXX. **Time-harmonic Lamb's problem for a system comprising a piezoelectric layer and piezoelectric half-plane**
AKBAROV S., ILHAN N.
JOURNAL OF SOUND AND VIBRATION, cilt.332, sa.21, ss.5375-5392, 2013 (SCI-Expanded)
- LXXI. **Buckling delamination of a sandwich plate-strip with piezoelectric face and elastic core layers**
AKBAROV S., YAHNIOĞLU N.
APPLIED MATHEMATICAL MODELLING, cilt.37, ss.8029-8038, 2013 (SCI-Expanded)
- LXXII. **On the Axisymmetric Time-harmonic Lamb's Problem for a System Comprising a Half-space and a Covering Layer with Finite Initial Strains**
AKBAROV S.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.95, sa.3, ss.143-175, 2013 (SCI-Expanded)
- LXXIII. **Microbuckling of a doublewalled carbon nanotube embedded in an elastic matrix**
AKBAROV S.
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- LXXIV. **Forced Vibration of the Pre-Stressed and Imperfectly Bonded Bi-Layered Plate Strip Resting on a Rigid Foundation**
AKBAROV S., HAZAR E., ERÖZ M.
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- LXXV. **On the influence of initial strains in layers on the propagation of torsional waves in a hollow sandwich cylinder (soft core and stiff face layers)**
Akbarov S., KEPCELER T., Egilmez M. M.
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- LXXVI. **Flexural wave dispersion in finitely pre-strained solid and hollow circular cylinders made of compressible materials**
AKBAROV S.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.92, sa.4, ss.387-421, 2013 (SCI-Expanded)
- LXXVII. **Buckling delamination of elastic and viscoelastic composite plates with cracks: Survey II (Axisymmetric and 3D problems)**
Akbarov S.
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- LXXVIII. **Buckling delamination of elastic and viscoelastic composite plates with cracks. Survey I: solution method and problems related to the plane strain state**
AKBAROV S.
MECHANICS OF COMPOSITE MATERIALS, cilt.48, sa.6, ss.681-692, 2013 (SCI-Expanded)
- LXXIX. **On Axisymmetric Longitudinal Wave Propagation in Double-Walled Carbon Nanotubes**
AKBAROV S.
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- LXXX. **A 3D FEM analysis of stress concentrations around two neighboring cylindrical holes in a**

- prestressed rectangular composite plate under bending**
AKBAROV S., YAHNIOĞLU N., YEŞİL Ü.
MECHANICS OF COMPOSITE MATERIALS, cilt.48, sa.5, ss.499-510, 2012 (SCI-Expanded)
- LXXXI. **The Influence of Third Order Elastic Constants on Axisymmetric Wave Propagation Velocity in the Two-Layered Pre-Stressed Hollow Cylinder**
AKBAROV S.
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- LXXXII. **3D Analyses of the symmetric local stability loss of the circular hollow cylinder made from viscoelastic composite material**
AKBAROV S., Karakaya S.
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- LXXXIII. **Dispersion of Axisymmetric Longitudinal Waves in a Pre-Strained Imperfectly Bonded Bi-Layered Hollow Cylinder**
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- LXXXIV. **On the Some Particularities of the Torsional Wave Dispersion in a Finitely Pre-Deformed Hollow Sandwich Cylinder**
AKBAROV S., KEPCELER T., EGILMEZ M. M.
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