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Research Areas

Mathematics, Differential Equations, Numerical Analysis, Natural Sciences

Academic and Administrative Experience

Vice Dean, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2016 - Continues

Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2011 - 2016

Supervised Theses

Selim S., Fokas Denkleminin Kesin Çözümleri, Postgraduate, T.YAŞA(Student), 2025

Selim S., Başlıca İnguinal Kanal Patolojilerinin Makine Öğrenmesi Algoritmaları ile Tahmin Edilmesi, Postgraduate, A.YILMAZ(Student), 2024

Selim S., Kaynak Terimli Burgers Denkleminin Sonlu Eleman Çözümleri, Postgraduate, B.ÇAKAY(Student), 2020

Selim S., İki-Noktalı Singüler Sınır Değer Problemlerinin Sayısal Çözümleri, Postgraduate, G.BAYAT(Student), 2019

Selim S., Bir Kısmi Denklemler Takımına Ait Non-Linear Sınır Değer Problemlerinin FEM İle İncelenmesi, Postgraduate, E.DAŞ(Student), 2004

Akbarov S., Selim S., Eğrisel Yapıya Sahip Kompozit Malzemeler Mekaniğinin Bazı Üç Boyutlu Titreşim ve Stabilitate Problemlerinin SEY İle İncelenmesi, Doctorate, I.DEMİRİZ(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Buckling instability of a thick rectangular plate of a composite material with a spatially periodically curved structure**
Akbarov S., Selim S., Demiriz I.
MECHANICS OF COMPOSITE MATERIALS, vol.40, pp.389-396, 2004 (SCI-Expanded)
- II. **Item analysis of the three-dimensional buckling problem for a clamped thick rectangular plate made of a viscoelastic composite**
Selim S., AKBAROV S.
MECHANICS OF COMPOSITE MATERIALS, vol.39, no.6, pp.531-540, 2003 (SCI-Expanded)
- III. **Stability of a strip made of a multilayer composite with a curved structure**

Akbarov S., Selim S.

INTERNATIONAL APPLIED MECHANICS, vol.37, no.6, pp.831-835, 2001 (SCI-Expanded)

IV. **Bending of a composite material strip with curved structure in the geometrically nonlinear statement**

Yahnioglu N., Selim S.

MECHANICS OF COMPOSITE MATERIALS, vol.36, no.6, pp.459-464, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Applying the Modified F-Expansion Method to Find the Exact Solutions of the Bogoyavlenskii Equation**
Selim S.
Journal of Engineering Technology and Applied Sciences, vol.9, no.2, pp.145-155, 2024 (Peer-Reviewed Journal)
- II. **A New Efficient Hybrid Method Based on FEM and FDM for Solving Burgers' Equation with Forcing Term**
Çakay A. B., SELİM S.
Journal of Applied Mathematics, vol.2024, 2024 (ESCI)
- III. **Numerical behavior of singular two-point boundary value problems in a comparative way**
Selim S., Elver G., Sarı M.
An International Journal of Optimization and Control: Theories & Applications, vol.7, pp.288-292, 2017 (Peer-Reviewed Journal)
- IV. **On the Convergence of Newton-Raphson Method Under FEM Analyses of Some Non-Linear Problems of Theory of Elasticity**
Selim S.
Journal of Yıldız Technical University, vol.1999, no.4, pp.41-50, 1999 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Exact Solutions for the Fokas Equation Using the ϕ^6 -Model Extension Method**
Yaşa T., Selim S.
4. Ulusal Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 16 - 17 July 2024, pp.99
- II. **A Finite Element Solution of the Two Dimensional Burgers' Equation**
Çakay A. B., Selim S.
7th International Conference on Mathematical Advances and Applications (ICOMAA-2024), İstanbul, Turkey, 8 - 11 May 2024, pp.51
- III. **Traveling Wave Solution for a Reaction-Diffusion SIR Epidemic Model**
Öztürk S., Selim S.
7th International Conference on Mathematical Advances and Applications (ICOMAA-2024), İstanbul, Turkey, 8 - 11 May 2024, pp.193
- IV. **Başlıca İnguinal Kanal Patolojilerinin Makine Öğrenmesi Algoritmaları ile Tahmin Edilmesi**
Yılmaz A., Aydın E., Selim S.
7th International Researchers, Statisticians, and Young Statisticians Congress, İstanbul, Turkey, 2 - 05 November 2023, pp.29-30
- V. **Finite Element Based Scheme for the Burgers Equation with Forcing Effects**
Selim S., Çakay A. B.
6th International Conference on Mathematical Advances and Applications (ICOMAA-2023), İstanbul, Turkey, 10 - 13 May 2023, pp.56
- VI. **Finite Element Solutions of The Burgers Equation**
Selim S., Çakay A. B.

3rd International Conference On Mathematical Advances And Applications (ICOMAA2020), İstanbul, Turkey, 24 - 27 June 2020, pp.53

VII. Numerical Solution of Boundary Value Problems in a Comparative Way

Selim S., Bayat G.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM19), İstanbul, Turkey, 10 - 13 March 2019, pp.178

VIII. A discussion on singular two-point nonlinear boundary value problems

Selim S., Elver G., Sarı M.

International Conference on Applied Analysis And Mathematical Modeling (ICAAMM2017), İstanbul, Turkey, 3 - 07 July 2017, pp.100

IX. Numerical Behavior of Singular Two-Point Boundary Value Problems in A Comparative Way

Selim S., Elver G., Sarı M.

The Second International Conference on Computational Mathematics and Engineering Sciences (CMES2017), İstanbul, Turkey, 20 May 2017, pp.26

X. Mathematical Modeling And Numerical Investigation of The Stress Analysis in The Rectangular Thick Plate From Composite Material With Spatially Periodically Curved Structure

Tokatlı N., Tarım E., Demiriz I., Selim S.

The 4th Congress of the Turkic World Mathematical Society (TWMS), Baku, Azerbaijan, 1 - 03 June 2011, pp.457

XI. Buckling Instability of a Thick Rectangular Plate Made of a Composite Material With a Periodic Spatially Curved Structure

Akbarov S. D., Selim S., Demiriz I.

Thirteenth International Conference, Mechanics of Composite Materials, Riga, Latvia, 16 - 20 May 2004, pp.9

XII. Yapısında İki Yönde Eğrilik Olan Kompozit Malzemeden Hazırlanmış Kalın Plâğın Stabilitate Kaybı

Selim S., Demiriz I.

XIII. Ulusal Mekanik Kongresi, Gaziantep, Turkey, 8 - 12 September 2003, pp.685-691

XIII. FEM Analyses of The Three-Dimensional Buckling Problem For a Clamped Thick Rectangular Plate From Viscoelastic Composites

Selim S., Akbarov S.

Twelfth International Conference, Mechanics of Composite Materials, Riga, Latvia, 9 - 13 June 2002, pp.177

XIV. Eğrisel Yapıya Sahip Kompozit Malzemeden Hazırlanmış Kalın Dikdörtgen Plaktaki Gerilme Dağılımının İncelenmesi

Kahramaner Y., Taylan İ., Demiriz I., Selim S.

XII. Ulusal Mekanik Kongresi, Konya, Turkey, 10 - 14 September 2001, pp.525-530

XV. Investigation on The Stress Distribution in a Thick Plate Fabricated From The Curved Composite

Kahramaner Y., Taylan İ., Demiriz I., Selim S.

Eight Annual International Conference On Composites Engineering - ICCE/8, Tenerife, Spain, 5 - 11 August 2001, pp.413-414

XVI. Stability of Strip Fabricated from the Multilayered Composite Material with Locally Curved Structures

Akbarov S., Selim S.

Seventh Annual International Conference on Composites Engineering - ICCE/7, Colorado, United States Of America, 2 - 08 July 2000, pp.785-786

XVII. Geometrical Non-Linear Bending Problems of The Strip Fabricated From The Multilayered Composite Material With Periodically Curved Structures

Yahnioglu N., Selim S.

2nd Pacific-Asia Conference On Mechanical Engineering, September 9-11, 1998 Manila Philippines, Manila, Philippines, 9 - 11 September 1998, pp.1

XVIII. The stability loss of the strip fabricated from the composite material with periodically curved structure

Yahnioglu N., Selim S.

Ninth International Symposium on Continuum Models and Discrete Systems (CMDS9), İstanbul, Turkey, 29 June -

03 July 1998, pp.832-835

XIX. Homojen Olmayan Anizotrop Malzemedeki Yapılmış Şerit İçin Bir Geometrik Non-Lineer Problemin İncelenmesi

Yahnioglu N., Selim S.

X. Ulusal Mekanik Kongresi, İstanbul, Turkey, 15 - 19 September 1997, pp.443-452

Supported Projects

Akbarov S., Selim S., Demiriz I., Tarım E., Project Supported by Higher Education Institutions, Delik ve Çatlak İçeren Kompozit Plakların Çekme Durumundaki Yerel Stabilitate Kaybına Ait Matematik Modellemenin Geliştirilmesi ve Sonlu Elemanlar Yöntemi İle İncelenmesi, 2005 - 2008

Akbarov S., Selim S., Demiriz I., Project Supported by Higher Education Institutions, Non-Lineer Elastisite Teorisi Denklemlerinin Sonlu Alanlar İçin Olan Sınır Değer Problemlerinin Perturbasyon Yöntemiyle İncelenmesi, 1997 - 2002

Peer Reviews in Scientific Publications

Turkish Journal of Mathematics, SCI Journal, February 2016

Sigma Mühendislik ve Fen Bilimleri Dergisi, National Scientific Refreed Journal, March 2005

Metrics

Publication: 27

Citation (WoS): 15

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H-Index (Scopus): 2