



A. Hakan Argeşo, Ph.D.
Associate Professor in Manufacturing Engineering
Atılım University
Department of Manufacturing Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
hakan.argeso@atilim.edu.tr
Tel: +90 312 586 88 27

PERSONAL

Date of Birth	January 1970
Place of Birth	Ankara, Turkey

EDUCATION

1996-2003	Middle East Technical University, Department of Engineering Sciences, Ph.D.
1993-1996	Middle East Technical University, Department of Civil Engineering, M.S.
1987-1993	Middle East Technical University, Department of Civil Engineering, B.S.

ACADEMIC POSITIONS

2014 - present	Associate Professor, Department of Manufacturing Engineering, Atılım University, Turkey
2009 - 2014	Assistant Professor, Department of Manufacturing Engineering, Atılım University, Turkey
2008 - 2009	Instructor, Department of Manufacturing Engineering, Atılım University, Turkey
2004 - 2008	Assistant Professor, Department of Mechanical Engineering, Başkent University, Turkey
2003 - 2004	Instructor, Department of Mechanical Engineering, Başkent University, Turkey
1997 - 2002	Research Assistant, Department of Engineering Sciences, Middle East Technical University, Turkey

ADMINISTRATIVE DUTIES

2016 - 2017	Associate Dean of Engineering Faculty, Atılım University
2014 - 2015	Acting Dean of Students, Atılım University
2010 - 2014	Codirector of Graduate School of Natural & Applied Sciences, Atılım University

RESEARCH INTERESTS

1	Computational solid mechanics,
2	Thermoelasticity, Poroelasticity ,Viscoelasticity, Plasticity
3	Soil structure interaction
8	Functionally graded materials

PUBLICATIONS

1	Soyarslan C, Argeso H, Bargmann S, Skeletonization-based beam finite element models for stochastic bicontinuous materials: Application to simulations of nanoporous gold. <i>Journal of Materials Research</i> , vol. (33), pp. 3371-3382, 2018. DOI: 10.1557/jmr.2018.244
2	Essa S, Argeso H, Elastic analysis of variable profile and polar orthotropic FGM rotating disks for a variation function with three Parameters, <i>Acta Mechanica</i> , vol. (228), pp. 3877–3899, 2017. DOI: 10.1007/s00707-017-1896-2.
3	Ermis M, Eratlı N, Argeso H, Kutlu A, Omurtag MH, Parametric analysis of viscoelastic hyperboloidal helical rod. <i>Advances in Civil Engineering</i> , vol. 19(9), pp. 1420-1434, 2016. DOI: 10.1177/1369433216643584.
4	Eratlı N, Argeso H, Kutlu A, Omurtag MH, The Effects of Viscous Bulk Compressibility for Noncylindrical Helices. <i>International Journal of Civil and Structural Engineering</i> , vol. (2), pp. 307-311. ISSN : 2372-3971
5	Eratlı N, Argeso H, Çalim FF, Temel B, Omurtag MH, Dynamic analysis of linear viscoelastic cylindrical and conical helicoidal rods using the mixed FEM. <i>Journal of Sound and Vibration</i> , vol. 333, pp. 3671-3690, 2014. DOI: 10.1016/j.jsv.2014.03.017.
6	Argeso H, Mengi Y, A frequency domain boundary element formulation for dynamic interaction problems in Poroviscoelastic Media. <i>Computational Mechanics</i> , vol. 53 (2), pp. 215-237, 2014. DOI: 10.1007/s00466-013-0903-2.
7	Argeso H, Analytical solutions to variable thickness and variable material property rotating disks for a new three parameter variation function. <i>Mechanics Based Design of Structures and Machines</i> , vol. 40 (2), pp. 133-152, 2012. DOI: 10.1080/15397734.2011.611459.
8	Argeso H, Eraslan AN, On the use of temperature-dependent physical properties in thermomechanical calculations. <i>International Journal of Thermal Sciences</i> vol. 47 (2), pp. 136-146, 2008. DOI: 10.1016/j.ijthermalsci.2007.01.029.
9	Argeso H, Eraslan AN, A computational study on functionally graded rotating solid shafts. <i>International Journal for Computational Methods in Science and Engineering</i> , vol. 8 (6), pp. 391-399, 2007. DOI: 10.1080/15502280701577842.
10	Mengi Y, Argeso H, A unified approach for the formulation of interaction problems by the boundary element method. <i>International Journal for Numerical Methods in Engineering</i> , vol. 66 (5), pp. 816-842, 2006. DOI: 10.1002/nme.1585.
11	Eraslan AN, Argeşo H, Computer solutions of plane strain axisymmetric thermomechanical problems. <i>Turkish Journal of Engineering and Environmental Sciences</i> , vol. 29 (6), 369-381, 2005. URL: http://journals.tubitak.gov.tr/engineering/issues/muh-05-29-6/muh-29-6-5-0506-10.pdf
12	Eraslan AN, Argeso H, 2005. On the application of von-Mises yield criterion to a class of plane strain thermal stress problems, <i>Turkish Journal of Engineering and Environmental Sciences</i> , vol. 29 (2), 113-128, 2005. URL:

	http://journals.tubitak.gov.tr/engineering/issues/muh-05-29-2/muh-29-2-6-0411-2.pdf
13	Eraslan AN, Argeso H, A nonlinear shooting method applied to solid Mechanics: Part II. Numerical solution of a plane strain model, <i>Nonlinear Analysis and Phenomena</i> , vol. 2 (1), pp. 31-42, 2005.
14	Eraslan AN, Sener E, Argeso H, Stress distribution in energy generating two layer tubes subjected to free and radially constrained boundary conditions. <i>International Journal of Mechanical Sciences</i> , vol. 45 (3), pp. 469-496, 2003. DOI: 10.1016/S0020-7403(03)00060-2.
15	Eraslan AN, Argeso H, Limit angular velocities of variable thickness rotating disks. <i>International Journal of Solids and Structures</i> , vol. 39 (12), pp. 3109-3130, 2002. DOI: 10.1016/S0020-7683(02)00249-4.

PROJECTS

1	Değişken Kesitli ve Eksen Geometrisi Silindirik Olmayan Viskoelastik Helislerin Karışık Sonlu Eleman Yöntemiyle Analizi (<i>Mixed finite element analysis of viscoelastic helices having variable cross-section and non-cylindrical axial geometry</i>), Tübitak 1001 - 111M308, 15.10.2011- 15.10.2014, Researcher .
2	Sac Metallerde Akma Yüzeyi Tespiti için Eş Zamanlı Sıcaklık ve Genleme Ölçümüne Dayalı Yeni Bir Deneysel Yaklaşımın Geliştirilmesi, Tübitak 1001 - 110M586, 15.04.2011-15.10.2012, Researcher .
3	Yapı-Zemin Etkileşimi Analizi İçin Yatay Dalgaları İletebilen ve Sınır Eleman Yöntemine Uygun Yeni Bir Yapay Sınır Şartının Geliştirilmesi (<i>Artificial Boundary Conditions for Soil-Structure Interaction Analysis Capable for Transmitting Horizontal Waves and Suitable for Boundary Element Analysis</i>), Tübitak – İNTAG Proje No. 562, 01.03.1999 -01.09.2000, Researcher .

CONFERENCE PRESENTATIONS

1	Argeso H, Yıldırım M, Isı üreten çok katmanlı kompozit tüplerin termoelastik analizine yönelik hesaplamalı bir yöntem, XX. XX. <i>Ulusal Mekanik Kongresi</i> , 05-09 Eylül 2017, Bursa, Türkiye.
2	Ermış M, Eratlı N, Argeso H, Kutlu A, Omurtag MH. The effects of the viscosity parameters on the barrel type helical rod, <i>The 2015 World Congress on Advances in Civil, Environmental and Materials Research - ACEM15</i> , 25-29 August 2015, Incheon, Korea.
3	Ermış M, Eratlı N, Argeso H, Kutlu A, Omurtag MH, Konik tipi viskoelastik helislerin farklı yüklemeler altındaki dinamik davranışı, XIX. <i>Ulusal Mekanik Kongresi</i> , 24-28 Ağustos 2015, Trabzon, Türkiye
4	Eratlı N, Ermış M, Argeso H, Kutlu A, Omurtag MH, Fiçi tipi doğrusal viskoelastik helislerin dinamik davranışı, XIX. <i>Ulusal Mekanik Kongresi</i> , 24-28 Ağustos 2015, Trabzon, Türkiye.
5	Ermış M, Argeso H, Eratlı N, Omurtag MH, The effects of viscous bulk compressibility for cantilevered cylindrical helices. <i>International Conference on Civil and Environmental Engineering - ICOCEE Cappadocia2015</i> , 20-23 May 2015, Cappadocia, Nevşehir, Turkey.
6	Eratlı N, Argeso H, Omurtag MH, The effects of viscous bulk compressibility for noncylindrical helices. <i>The Proceedings of Second International Conference on Advances in Civil, Structural and Construction Engineering - CSCE 2015</i> , 18-19 April 2015, Rome, Italy.
7	Ermış M, Eratlı N, Argeso H, Çalım FF, Omurtag MH, Quasi-static and dynamic analyses of viscoelastic conical helices with a squared box cross-

	section. <i>11'th International Congress on Advances in Civil Engineering</i> , 21-25 October 2014 İstanbul, Turkey.
8	Argeso H, Çalım FF, Eratlı N, Omurtag MH, Dynamic analysis of viscoelastic helixes subjected to impulsive-sinusoidal load by using the finite element Method. <i>10'th International Congress on Advances in Civil Engineering</i> , 17-19 October 2012 Ankara, Turkey.
9	Argeso H, Eratlı N, Darılmaz K, Omurtag MH, Analysis of viscoelastic conical helixes via mixed finite element method, <i>International Symposium on Advances in Applied Mechanics and Modern Information Technology</i> , pp. 102-106, 22-23 September 2011, Baku, Azerbaijan.
10	Argeso H, Eratlı N, Darılmaz K, Omurtag MH, Silindirik helislerin farklı viskoelastik modellemelerinin SE analizi, <i>XVII. Ulusal Mekanik Kongresi</i> , 5-9 Eylül 2011, Elazığ, Türkiye.
11	Argeso H, Mengi Y, Sonsuz poroviskoelastik ortam içine gömülü dairesel kesitli rijit silindirik cismin üzerindeki dalga saçılmasının sınır eleman yöntemiyle analizi. <i>XVI. Ulusal Mekanik kongresi</i> , 22-26 Haziran 2009, Kayseri, Türkiye.
12	Argeso H, Eraslan AN, Fonksiyonel derecelendirilmiş dönen milin elastik davranışı için yarı analitik bir çözüm. <i>XV. Ulusal Mekanik kongresi</i> , 03-07 Eylül 2007, Isparta, Türkiye.
13	Argeso H, Eraslan AN, Deformation analysis of FGM rotating hollow shafts with shooting method, <i>CMM-2007 Computer Methods in Mechanics</i> , June 19-22 2007 Lodz-Spala, Poland.
14	Argeso H, Eraslan AN, A computational study on functionally graded solid shafts: Analysis of preliminary results. <i>III European Conference on Computational Mechanics, Solids Structures and Coupled Problems in Engineering</i> , June 5-8 2006 Lisbon, Portugal.
15	Argeso H, Eraslan AN, Düzlemsel şekil değiştiren, aksenal simetrik elemanlarda artık termal gerilmelerin tahmin edilebilmesi için sayısal hesaplamalı bir model. <i>XIV. Ulusal Mekanik kongresi</i> , 12-16 Eylül 2005, Antakya, Türkiye.
16	Argeso H, Eraslan AN, A simple computational model for unified treatment of a class of plane strain thermoplastic stress problems. <i>6-th International Congress in Thermal Stresses</i> . Vol. 1, 203-206, May 26-29 2005, Vienna, Austria.
17	Eraslan AN, Argeso H, Akıs T, Stress analysis in heat generating steel-copper tube assembly with rigid casing. <i>5-th International Congress in Thermal Stresses and Related Topics.</i> , Vol. 2, VM-511-514, June 6-10 Blacksburg 2003, VA, USA.
18	Mengi Y, Baranoğlu B, Argeşo H, Sınır eleman yöntemine genel bakış ve bazı uygulamalar, <i>XI. Ulusal Mekanik Kongresi</i> , 6-10 Eylül 1999, Bolu, Türkiye.
19	Polat MU, Bahat HB, Argeşo H, Düzlem kabuk yapısal sistemlerin analizi için bir panel makro elemanı. <i>III. Ulusal Hesaplamalı Mekanik Konferansı</i> , pp. 203-209, 16-18 Kasım 1998, İstanbul, Türkiye.

COURSES GIVEN

1	Computer Programming I (Introduction to C programming language), Bařkent University
2	Computer Programming II (C and C++ programming languages), Bařkent University
3	Introduction to Computational Tools in Manufacturing Engineering
4	Statics
5	Dynamics
6	Strength of Materials
7	Advanced Strength of Materials
8	Numerical Analysis
9	Theory of Continuous Media I
10	Theory of Continuous Media II