

ÖZGEÇMİŞ

1. **Adı Soyadı** : Armağan Fatih Karamanlı
3. **Unvanı** : Doç.Dr.
4. **Öğrenim Durumu** : Doktora
5. **Çalıştığı Kurum** : Bahçeşehir Üniversitesi

Derece	Alan	Üniversite	Yıl
Lisans	Makina Mühendisliği	İstanbul Teknik Üniversitesi	2000
Y. Lisans	İşletme Mühendisliği	İstanbul Teknik Üniversitesi	2003
Doktora	Makina Mühendisliği	İstanbul Teknik Üniversitesi	2013

6. Akademik Unvanlar

Dr.Öğr.Üyesi :08.02.2016

Doçentlik :15.08.2018

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI,SSCI,Arts and Humanities)

2021 Karamanlı, A., Vo, T. "Finite element model for free vibration analysis of curved zigzag nanobeams", Composite Structures, Vol:264, 115097.

2021 Karamanlı, A., Vo, T. "Free vibration of axially loaded zigzag and armchair nanobeams using doublet mechanics", Mechanics Based Design of Structures and Machines, doi.org/10.1080/15397734.2021.2013878, (Accepted).

2021 Karamanlı, A. "Structural behaviours of zigzag and armchair nanobeams using finite element doublet mechanics", European Journal of Mechanics - A/Solids, Vol:89, 104287.

2021 Karamanlı, A., Vo, T. "Finite element model for carbon nanotube-reinforced and graphene nanoplatelet-reinforced composite beams", Composite Structures, Vol:264, 113739.

2021 Karamanlı, A., Aydogdu, M., Vo, T. "A comprehensive study on the size-dependent analysis of strain gradient multi-directional functionally graded microplates via finite element model", Aerospace Science and Technology, Vol:111, 106550.

2021 Karamanlı, A., Aydogdu, M. "Vibration behaviors of two-directional carbon nanotube reinforced functionally graded composite plates", Composite Structures, Vol:262, 113639.

2021 Karamanlı, A. "Radial basis Taylor series method and its applications", Engineering Computations, Vol. 38 No. 5, pp. 2354-2393.

2021 Karamanlı, A. "Size-dependent behaviors of three directional functionally graded shear and normal deformable imperfect microplates", Composite Structures, Vol:257, 113076.

2021 Karamanlı, A., Vo, T. "A quasi-3D theory for functionally graded porous microbeams based on the modified strain gradient theory", Composite Structures, Vol:257, 113066.

- 2021 Karamanli, A., Vo, T. "Bending, vibration, buckling analysis of bi-directional FG porous microbeams with a variable material length scale parameter", *Applied Mathematical Modelling*, Vol:91, 723-748.
- 2020 Karamanli, A., Vo, T. "Size-dependent behaviour of functionally graded sandwich microbeams based on the modified strain gradient theory", *Composite Structures*, Vol:246, 112401.
- 2020 Karamanli, A., Aydogdu, M. "Bifurcation buckling conditions of FGM plates with different boundaries", *Composite Structures*, Vol:245, 112325.
- 2020 Karamanli, A., Aydogdu, M. "Structural dynamics and stability analysis of 2D-FG microbeams with two-directional porosity distribution and variable material length scale parameter", *Mechanics Based Design of Structures and Machines*, Vol:48(2), 164-191.
- 2020 Karamanli, A., Aydogdu, M. "Vibration of functionally graded shear and normal deformable porous microplates via finite element method", *Composite Structures*, Vol:237, 111934.
- 2020 Karamanli, A., Aydogdu, M. "Free vibration and buckling analysis of laminated composites and sandwich microbeams using a transverse shear-normal deformable beam theory", *Journal of Vibration and Control*, Vol:26(3-4), 214-228.
- 2019 Karamanli, A., Aydogdu, M. "Size dependent flapwise vibration analysis of rotating two-directional functionally graded sandwich porous microbeams based on a transverse shear and normal deformation theory", *International Journal of Mechanical Sciences*, Vol:159, 165-181.
- 2019 Karamanli, A., Aydogdu, M. "On the vibration of size dependent rotating laminated composite and sandwich microbeams via a transverse shear-normal deformation theory", *Composite Structures*, Vol:216, 290-300.
- 2019 Karamanli, A., Aydogdu, M. "Buckling of laminated composite and sandwich beams due to axially varying in-plane loads", *Composite Structures*, Vol:210, 391-408.
- 2018 Karamanli, A., Thuc P. Vo, "Size dependent bending analysis of two directional functionally graded microbeams via a quasi-3D theory and finite element method", *Composites Part B: Engineering*, Vol:144, 171-183.
- 2018 Karamanli, A., "Free Vibration Analysis of Two Directional Functionally Graded Beams Using a Third Order Shear Deformation Theory", *Composite Structures*, Vol:189, 127-136.
- 2017 Thuc P. Vo, Huu-Tai Thai, Trung-Kien Nguyen, Domagoj Lanc, Armagan Karamanli, "Flexural analysis of laminated composite and sandwich beams using a four-unknown shear and normal deformation theory", *Composite Structures*, Vol:176, 388-397.
- 2017 Karamanli, A., "Bending Behaviour of Two-Directional Functionally Graded Sandwich Beams by using a Quasi-3D Shear Deformation Theory", *Composite Structures*, Vol:174, 70-86.
- 2017 Karamanli, A., "Elastostatic Analysis of Two-Directional Functionally Graded Beams using Various Beam Theories and Symmetric Smoothed Particle Hydrodynamics", *Composite Structures*, Vol:160, 653-669, 2017.
- 2013 Karamanli, A., Mugan, A., "Strong Form Meshless Implementation of Taylor Series Method", *Applied Mathematics and Computation*, Vol:219, Issue:17, 6069-6080.

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

2018 Karamanli, A., "Bending Analysis of Two Directional Functionally Graded Beams Using A Four-Unknown Shear and Normal Deformation Theory", *Journal of Polytechnic*, Vol:21-4, 861-874.

2018 Karamanli, A., "Analytical Solutions for Buckling Behavior of Two Directional Functionally Graded Beams Using a Third Order Shear Deformable Beam Theory" *Journal of Engineering and Science*, Vol:6-2, 164-178.

2018 Karamanli, A., "Free Vibration and Buckling Analysis of Two Directional Functionally Graded Beams Using a Four-Unknown Shear and Normal Deformable Beam Theory" *Anadolu University Journal of Science and Technology A - Applied Sciences and Engineering*, Vol:19-2, 375-406.

2018 Karamanli, A., "Flexure Analysis of Laminated Composite and Sandwich Beams Using Timoshenko Beam Theory", *Journal of Polytechnic*, Vol:21-3, 663-643.

2018 Karamanli, A., "Bending analysis of composite and sandwich beams using Ritz method", *Anadolu University Journal of Science and Technology A - Applied Sciences and Engineering*, Vol:19-1, 10-23.

2017 Karamanli, A., "Static Analysis of Reddy-Bickford Composite and Sandwich Beams via Ritz Method", *Celal Bayar University Journal of Science*, Vol:13-4, 933-942.

2017 Karamanli, E.B., Kilicoglu, H., Karamanli, A., "Evaluation of the effects of the dental appliance and skeletal anchored face mask therapies on the craniofacial system by using nonlinear finite element analysis", *APOS Trends in Orthodontics*, Vol:7 (6), 267-272.

2017 Karamanli, E.B., Kilicoglu, H., Karamanli, A., "Evaluation of the effects of the chin cup appliance on the craniofacial structures by the finite element analysis" *APOS Trends in Orthodontics*, Vol:7 (5), 219-223.

2017 Karamanli, A., "Static Behaviour of Two-Directional Functionally Graded Sandwich Beams using Various Beam Theories and the SSPH Method", *New Trends in Mathematical Sciences*, Vol:5, No:2, 112-147.

2016 Karamanli, A., "Deformations of Isotropic Tapered Beams by using Symmetric Smoothed Particle Hydrodynamics Method", *New Trends in Mathematical Sciences*, Vol:4, No:4, 145-162.

2016 Karamanli, A., "Elastostatic Deformations of Thick Beams by Using Different Beam Theories and a Meshless Method", *International Journal of Engineering Technologies*, Vol:2, No:3, 83-93.

2016 Karamanli, A., "Analysis of Bending Deflections of Functionally Graded Beams by using Different Beam Theories and Symmetric Smoothed Particle Hydrodynamics", *International Journal of Engineering Technologies*, Vol:2, No:3, 105-117.

2015 Karamanli, A., "Bending Deflection Analysis of a Semi-Trailer Chassis by Using Symmetric Smoothed Particle Hydrodynamics", *International Journal of Engineering Technologies*, Vol:1, No:4, 134-140.

2015 Karamanli, A., "Different Implementation Approaches of the Strong Form Meshless Implementation of Taylor Series Method", *International Journal of Engineering Technologies*, Vol:1, No:3, 95-105, 2015.

2012 Karamanli, A., Mugan, A., "Solutions of Two-Dimensional Heat Transfer Problems by Using Symmetric Smoothed Particle Hydrodynamics Method", *Journal of Applied & Computational Mathematics*, 1:4,2012.

7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

2021 Karamanli, A., Vo, T. "Finite element model for carbon nanotube-reinforced and functionally graded multilayer graphene nanoplatelet-reinforced composite beams", 2nd International Conference on Theoretical, Analytical and Computational Methods for Composite Materials and Composite Structures-ICOMP21.

2020 Karamanli, A., Vo, T. "A quasi-3D theory for functionally graded porous microbeams based on the modified strain gradient theory", International Conference on Composite Structures-ICCS23, Portugal.

2020 Karamanli, A., Aydogdu, M. "Dynamical analysis of two-directional carbon nanotube reinforced functionally graded composite plates", International Conference on Composite Structures-ICCS23, Portugal.

2017 Karamanli, A., "An analytical solution for static analysis of Two-Directional Functionally Graded Beams using a Quasi 3D Theory", 4th International Conference on Pure and Applied Sciences: Renewable Energy, Turkey.

2017 Karamanli, A., "Elastostatic Analysis of Two-Directional Functionally Graded Sandwich Beams Using Various Beam Theories and a Meshless Method", International Conference on Composite Structures-ICCS20, France.

2015 Karamanli, A., Topçu, İ., Kaçar, B., "On the Calculation of Deflection of a Semi Trailer Chassis Under Various Loading Conditions: An Experimental and Numerical Investigation", 96-106, AVTECH '15 / III. Automotive and Vehicle Technologies Conference November, Turkey.

7.4. Diğer yayınlar

2013 Karamanli, A., "Development of Meshless Methods Based on Differential Transform Method", İTÜ, Ph.D. Thesis.

2003 Karamanli, A., "Total Productive Maintenance and Equipment Improvement I", AUTOMATION Magazine, Turkey.

2003 Karamanli, A., "Total Productive Maintenance and Equipment Improvement-II", AUTOMATION Magazine, Turkey.

2003 Karamanli, A., "Equipment Improvement Activities of Total Productive Maintenance Continuous Improvement Action Teams", İTÜ, M.Sc. Thesis.

8. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2021-2022	Güz	Mechanical Vibrations	2	2	72
		Introduction to Mechatronics	2	0	145
		Capstone I	1	0	120
		Capstone II	0	2	2
2020-2021	Bahar	Capstone I	1	0	2
		Capstone II	0	2	94
		Mechanical Components and Systems	3	2	146
2020-2021	Güz	Mechanical Vibrations	2	2	62
		Introduction to Mechatronics	2	0	161
		Capstone I	1	0	94
		Capstone II	0	2	4
2019-2020	Bahar	Capstone I	1	0	1
		Capstone II	0	2	12
		Mechanical Components and Systems	3	2	116
2019-2020	Güz	Capstone I	1	0	71
		Introduction to Mechatronics	2	0	157
		Introduction to Finite Element Methods	3	0	39
2018-2019	Bahar	Mechanical Components and Systems	3	2	120
		Introduction to Finite Element Methods (YL)	3	0	8
2018-2019	Güz	Differential Equations	3	0	115
		Numerical Methods for Engineers	3	2	86