PROF. DR. ELMAN HASANOĞLU

Işık Üniversitesi

Fen-Edebiyat Fakültesi, Matematik Bölümü

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1. Adı Soyadı : Elman HASANOĞLU

2. Doğum Tarihi : 15.04.1948

3. Unvanı : Profesör

4. Öğrenim Durumu:

ÖĞRENİM DÖNEMİ	DERECE	ÜNİVERSİTE	ÖĞRENİM ALANI
1965-1971	Lisans	Azerbaycan Devlet Üniversitesi	Matematik (Lenin Burslu)
1971	Y. Lisans	Azerbaycan Devlet Üniversitesi	Matematik
1971-1973	Ph. Doktora	Azerbaycan Bilimler Akademisi	Matematik, Fonksiyonel Analiz
1974-1991	Bilim Doktoru	Charkov Devlet Üniversitesi	Matematiksel Fizik ve Radyofizik

5. Akademik Ünvanlar

5. Akademik Ünvanlar YIL	UNVAN	KURUM	BİRİM
1971	Küçük Bilim Çalışanı (Yrd. Doçent)	Azerbaycan Bilimler Akademisi	Cybernetik Enstitüsü
1974	Büyük Bilim	Azerbaycan	Cybernetik

	Çalışanı (Doçent)	Bilimler Akademisi	Enstitüsü
1992	Aparıcı Bilim İşcisi (Profesör)	Azerbaycan Bilimler Akademisi	Cybernetik Enstitüsü

6. Yayınlar (Özet)

(Not: Eski Sovyetler   Birliği Savunma Bakanlığının kapalı dergilerinde yayınlanan makaleler yer almamaktadır)

6. 1. WOS ve SCI-Expanded kapsamındaki dergilerde yayınlanan makaleler

14. Asymptotic Solutions of Love Wave Propogation in a Covered Half-Space with Inhomogeneous Inıtial Stresses G_3^1 (with M. Negin), TWMS J. of Applied and Engineering Mathenatics, V.5, No.1 p.p.88-97, 2015

13. A method for calculating profiles of thick lenses (with Polat B. A), Applied and Comput. Mathematics. 3 (2004) No. 1, pp. 23-33.

12. A new theory of complex rays. IMA Journal of Applied Mathematics, 2004, 69(6):521-537.

11. On The Realization of Optical Mappings and Transformation of Amplitudes by Means of an Aspherical "Thick " Lens. (with. B. Polat) , International Journal of Electronics and Communications (AEÜ) vol. 54, No.2, pp.109-113, 2000.

10. Theory of the Focusing of Laser Radiation Into a Transmission Line, Soviet Journal of Communication Tech. and Electronics, vol. 37, No 7, pp. 1 - 8 , 1992.

9. Paraxial Approximation in the Theory of Laser Beam Focusing, Soviet Journal of Com of Communication Tech. and Electronics ,vol. 37, No 7, pp. 1 - 8 , 1992.

8. Concerning Four - Mirror Systems, Soviet Journal of Communication Tech. and Electronics, vol. 36, No 1, pp. 42 - 49, 1991.

7. On Synteze of Two Reflector Antennas - Converter of Amplitude of Plane Waves, Soviet Journal of Communication Tech. and Electronics, vol. 36 , No 7, 1991.

6. On Optical Transformation of coordinates by Aspherical Lenz, Soviet Journal of Communication Tech.and Electronics, vol 36 , No 7, pp. 1991.

5. A class of Optical Image Transformation Produced by Means of Two Reflections, (with Kinber B.Ye.), Soviet Journal of Communication Tech.and Electronics, vol 36, No 7, pp. 67 – 72, 1991.

4. On the Transformation of the non - Homocentrical Waves After Two Reflection, (with Kinber B.Ye.),Soviet Journal of Communication Tech.and Electronics , vol 34, No 1, pp. 67 -72 , 1989.

3. Reflector Antennas with Anisotrophic Surfaces - Converter of Polarization (with Kinber B.Ye., Vinebrand M.M.),Soviet Journal of Communication Tech.and Electronics, vol 34, No 4, 1989.

2. On the Mathematical Theory of Two Reflector Antennas", Soviet Journal of Communication Tech. and Electronics, vol. 30, No 7,1986.

1. Completeness theorems in Banach space. Functional Analysis and its Applications (with Allahverdiyev J.E.), V.8, No.4, Moscow, 1974 (Rusca).

6. 2. Uluslararası hakemli ve indekslenen dergilerde yayınlanan makaleler
(Not: 1-22 makaleler Eski Soviyetler Birliği Bilimsel yayınları İndeksleme ve Özetleme kuruluşu olan VINITI de indekslenerek özetlenmiştir)

23. Inverse Problems for Many Reflector Systems , Turkish Journal of Physics, vol.20, No 4, 1996. (ULAKBİM)

22. On Optical Transformation of Coordinates After Two Reflections, Computer Optics, Moscow , No 3, 1988. (Rusca, VINITI).

20. On the Transformation of Wave Fronts, Proceedings of Academy of Sciences of Azerbaijan No 2 , 1988 (Rusca, VINITI).

19. Method for Calculation Two Reflector Antenna Surfaces, non -sensitive to non - symmetric gravitational deflections (with Tarasov V.B.) Proceedings of Academy of Sciences of Azerbaijan , No 1, 1987 (Rusca,VINITI).

18. On the Inverse Problems in Geometrical Optics, Proc. of Academy of Sciences of Azrbaijan , No 5 , 1987 (Rusca,VINITI).

17. Application of the Theory of B - Splines to Calculation of the Far - Field Pattern of Plane Aperture . II. (with Karasik, Vinebrandt M.M.) Proceedings of Academy of Sciences of Azerbaijan, No 5, 1987. (Rusca,VINITI).

16. Application of the Theory of B - Splines to the Calculation of the Far - Field Pattern of Plane Aperture I.(with Karasik , Vinebrandt M.M.), Proceedings of Academy of Sciences of Azerbaijan, No 4, 1987 (Rusca,VINITI).

15. On the inverse problems in geometrical optics, Proceedings of Academy of Sciences of Azerbaijan, 1987, No 5 (Rusca,VINITI).

14. A method for calculating two reflector antennas, Proceedings of Academy of Sciences of Azerbaijan, 1987, No 5 (Rusca, VINITI).

13. Identification parameters one general control system (with Mahmudov E.N.), Proceedings of Academy of Sciences of Azerbaijan, 1986, No 1 (Rusca, VINITI).
12. Construction lattice systems with variable transmission (with Borovikov V.A., Mirzoyan K.A.) VINITI, No. 1158-85, Moscow, 1985 (Rusca, VINITI).

11. On the modal control theory by eigen values and eigen vectors of the finite dimensional linear systems (with Kazimov S.S.), VINITI No 8041-85, 1985, Moscow, (Rusca, VINITI).

10. Modal control theory with multi dimensional objects (with Kazimov S.S.), Proceedings of Academy of Sciences of Azerbaijan, 1985, No 5 (Rusca, VINITI).

9. Determining impedance structure of the converter of the polarization. In book "Waves and Diffraction" Tbilisi, 1985 (Rusca, VINITI).

8. Optimal two reflector systems, transforming polarization of insident field (with Vinebrand M.M.) Proceedings of Academy of Sciences of Azerbaijan, 1984, No 5 (Rusca, VINITI).

7. On the control theory using digital systems (with Belyanskiy P.V., Maksimov Yu.M.) Proceedings of Academy of Sciences of Azerbaijan, 1983, No 4 (Rusca, VINITI).

6. Compensation of deformation of the mirror systems of radiotelescope by controlling counterreflector, Proceedings of Academy of Sciences of Azerbaijan, 1982, No 5 (Rusca, VINITI).

5. Determining Deformation of the radiotelescope RT-70, Proceedings of Academy of Sciences of Azerbaijan, 1981, No 6 (Rusca, VINITI).

4. On the Mathematical Models of the Reflector Systems of Radiotelescope (with Belyanski P.V., Danilevich A.B.),Proceedings of Academy of Sciences of Azerbaijan No 5, 1980 (Rusca, VINITI).

3. Theorems on completeness of eigenvectors of operators, rationally depending on parameter (with Allahverdiyev J.E.)Proceedings emy of Sciences of Azerbaijan, 1974, No.6, pp.20-32. (Rusca, VINITI).

2. Theorems on completeness of the eigen-and adjoninted vectors of the operator branchs in Banach space.VINITI, No.5366-73, Moscow, pp.1-21 (Rusca, VINITI).

1. On estimating of the resolvent of the operators, rationally depending on the spectral parameter. Proceedings of Academy of Azerbaijan, 1971, No.5-6, pp.23-28 (Rusca, VINITI)

6.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler.

12. Beam tracing theory in Minkowski space ,Electromagnetics in Advanced Applications (ICEAA, 2011), International Conference on Publication Year: 2011 , Page(s): 1440 - 1441 ICEAA -11, September 12-16, Torino, Italy,
Taranan – indexlenen kurum: **IEEE Xplore**

11. On the operator pencils in Banach space, The 20th International Congress of Jangjeon Mathematical Society,August 21-23, Uludağ University, Bursa, Turkey.

10. The ray method and equations with rapidly oscillating solutions, Workshop on Mathematical Methods in Applied Sciences, May 22-23, 2008, Uludağ University, Bursa, Turkey.

9. On Complex Solutions of the Eikonal Equation, IECEA'07, September 17-21, 2007, Torino, Italy. Taranan – indexlenen kurum: **IEEE Xplore**

8. Complex rays in Minkowski Space, Days on Diffraction, May 30 – June 2, 2005, St.Petersburg, Russia.

7. Complex and Real Rays in Three Dimensional Minkowski space Proceedings of Mathematical Methods in Electromagnetic Theory (MMET 2002), Kiyev, 2002 (an invited paper).

6. Determining wave fronts by prespecified focal line. Proceedings of Mathematical Methods in Electromagnetic Theory (MMET 94),Kharkov, 1994.

5. On the Mapping Problem of the Laser Focusing Theory III Azerbaijan - Turkey Mathematical Symposium, Trabzon , Turkey , 1993.

4. On the Transformation of Wave Fronts Arbitrary Configuration After Two Reflection, (with Kinber B.Ye.) In the book Waves and Diffraction, vol. 1, pp. 119 - 123 Moscow 1990 (Rusca).

3. On the Transformation of Plane Waves After Four Reflection. In the book Waves and Diffraction , vol 1, pp. 108 - 111,Moscow ,1990. (Rusca).

2. On Optical Transformation of Coordinates After Two Reflections, Computer Optics, Moscow , No 3, 1988. (Rusca).

1. Determining impedance structure of the converter of the polarization. In book "Waves and Diffraction" Tbilisi, 1985 (Rusca).

7. Davetli olarak verdiği konuşmalar
Eski Sovyetler Birliği Bilimler Akademisi " Difraksiyon ve Dalga Teorisi Üzere Seminar". 1983-1990 yılları arası, her yıl, Moskova.

8. Projeler:
Eski Sovyetler Birliği Savunma Bakanlığı ile yürütülen projeler:
1. 1978-1981, Gobelen,
2. 1982-1986, Reyestr,
3. 1987-1990 Gazoprovod .

9. Ödüller:
9.1. II. Azerbaycan Fizik Olimpiyatı, 2. Ödül (1964)
9.2. VI. Azerbaycan Matematik Olimpiayatı, 1. Ödül (1966)
9.3. Lenin Bursu (Eski Sovyetler Birliğin' de en yüksek eğitim bursu ,1966-71)
9.4. Elektromaynetik Teorinin gelişimine sağladığı katkılardan dolayı Uluslararası
N.A.Khijnyak Ödülü, IEEE AP/MTT/AES/ED/GRS/GRS/NPS/EMB Societe East Ukraine Joint Chapter, International Conference on Electromagnetic Theory, 10-13 September, 2002, Kiyev, Ukrayna
10. Yayınlanmış kitaplar
1 . E. Hasanov , G. Uzgören ."Kombinatorik ve Elemeanter Olasılık Teorisine Giriş" Çağlayan Kitabevi, Istanbul, 1997.
2. E.Hasanov, G. Uzgören, A. Büyükaksoy. "Diferansiyel Denklemler Teorisi" , Istanbul, 2002,
3. E.Hasanov, A. Huseyinova. "Diferansiyel denklemler ve uygulamaları" , Istanbul, 2008,

11. Patent
Symmetric Dual Reflector Antenna for Radiotelescope (V.B.Tarasov, P.V.Belyanski , A.N.Kozlov , M.I.Mustafayev) , Patent No 1845364, Moskova , 1985.

12. İdari Görevler

12.1 Işık Üniversitesi Satranç Kulübü danışmanı
12.2 Işık Üniversitesi Stratejik Araştırmalar Kulübü danışmanı

13. Akademik ve Mesleki Deneyim

TARİH	KURUM/KURULUŞ	GÖREV
1971-73	Azerbaycan Bilimler Akademisi, Cybernetika Enstitüsü,	küçük bilim işçisi
1974-77	Moskova Devlet Üniversitesi, Mekanik-Matematik Fakültesi,	post doktora çalışmaları
1978-1990	Azerbaycan Bilimler Akademisi, Cybernetika Enstitüsü	Bölüm Başkanı
1990-1993	Azerbaycan Bilimler Akademisi, Cybernetika Enstitüsü	Aparıcı Bilim Çalışanı
1993-1999	Istanbul Üniversitesi. Mühendislik Fakültesi	Profesör
1999-2011	Işık Üniversitesi,	Profesör
2011-2013	Işık Üniversitesi	Matematik Böl. Başkanı
2013-	Işık Üniversitesi	Profesör

14. Bilimsel Kuruluşlara Üyelikler
14.1 Optical Society of America

15. Diğer akademik ve bilimsel faaliyetler
15.1 TWMS Journal of Applied and Engineering Mathematics (Baş Editör)
15.2 TWMS Journal of Pure and Applied Mathematics (Editorial Board üyesi)
15.3 Selcuk Journal of Applied Mathematics (Editorial Board Uyesi)

16. Diğer akademik ve bilimsel faaliyetler
16.1. Hakemlik yaptığı SCI-Expanded kapsamındaki dergiler
1. Applied and Computational Mathematics
2. Turkish Journal of Mathematics
3. Journal of American Optical Society
4. TWMS J. of Pure and Appl. Math

17. Son iki yılda verilen lisans ve lisansüstü düzeydeki dersler

Akademik yıl	Dersin Adı	Haftalık Saat			Öğrenci Sayısı
		Ders	Uyg.	Lab.	
2014, Güz	Mathematics 103, sec.5-6	6	0	0	72
	Math 441	3	0	0	4
2015, Bahar	Mathematics 103, sec 5-6	6	0	0	72
	Math 441	3	0	0	4

2015 Güz	Math 104.01	3	0	0	42
	Math 361.01	3	0	0	1
	Math 441.01	3	0	0	4
2016 Bahar	Math 104.01	3	0	0	28
	Math 464	3	0	0	2
	Math 214	3	0	0	7