

CURRICULUM VITAE

Prof. Dr. Dr. hc. ERDOĞAN S. ŞUHUBİ

PERSONAL INFORMATION

PLACE AND DATE OF BIRTH Istanbul, October 4, 1934
ADDRESS (HOME) Arikoy Kooperatifi, Macka Caddesi, Orman Yolu 64,
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ACADEMIC RANKS

PROFESSOR İstanbul Technical University (İTÜ), Fac. of Civil Engineering, 1970.
ASSOC. PROFESSOR İTÜ, Faculty of Civil Engineering, 1964.
PH. D. İTÜ, Faculty of Civil Engineering, 1960.
M. S. İTÜ, Faculty of Civil Engineering, 1956; İTÜ, Institute of Nuclear
Energy, 1962.

ACADEMIC DUTIES

2001 Nov.- 2011 Sep. Professor of Mathematics, Yeditepe University, Department of
Mathematics, Faculty of Science
1971-2001 Professor of Mechanics, İTÜ, Faculty of Science and Letters (Faculty of
Fundamental Science until 1982). Retired on October 4, 2001.
Sep.-Oct. 1993: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Napoli, Napoli, Italy.
Sep.-Oct. 1991: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Napoli, Napoli, Italy.
Sep.-Oct. 1989: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Napoli, Napoli, Italy.
Sep. 1988: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Napoli, Napoli, Italy.
Jan.-May 1987: Killam Visiting Scholar, Department of Mechanical Engineering, Calgary
University, Calgary, Alberta, Canada
Sep. 1985: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Napoli, Napoli, Italy.
Sep. 1983: Visiting Professor (Supported by CNR), Department of Mechanics,
University of Napoli, Napoli, Italy.
Sep. 1982: Visiting Professor (Supported by CNR), Department of Mathematics,
University of Genova, Genova, İtalya.
June-Dec. 1975: Visiting Scientist (Supported by SERC), Department of Engineering
Mathematics, University of Newcastle upon Tyne, Newcastle upon Tyne,
England.

- 1970-1971: Professor of Applied Mechanics, İTÜ, Faculty of Civil Engineering.
1964-1970: Assoc. Professor of Applied Mechanics, İTÜ, Fac. of Civil Engineering.
1968-1970: Visiting Associate Professor, Department of Aeronautical and Mechanical Sciences, Princeton University, Princeton, N. J., USA.
1962-1964: Research Associate, Department of Aeronautical and Engineering Sciences, Purdue University, West Lafayette, Ind., USA.
1956-1964: Asistant, İTÜ, Faculty of Civil Engineering, Chair of Technical Mechanics and General Strength of Materials

AWARDS

- Honorary Ph. D. Gebze Higher Institute of Technology, June 2007
Various CNR (Consiglio Nazionale delle Ricerche) supports between 1982 and 1993 for visiting professorships in Italy
Killam Visiting Scholarship, January-May 1987, Canada.
Science Prize 1976, Scientific and Technical Research Council of Turkey.
SERC (Science and Engineering Research Council) Visiting Scholarship, June-December 1975, England.
Sloan Visiting Professorship, Princeton University, USA, 1968-1969.

PROFESSIONAL DUTIES

- 1996-2004: Member of Editorial Advisory Board, *Modelling and Simulation in Science, Engineering and Technology* Series, Birkhäuser.
1994-1999: Editor-in-Chief, *İ. T. Ü. Bülteni* (Since 1997 it is published by Springer-Verlag as *ARI*)
1982-1999: Head of Department of Engineering Sciences, İ. T. Ü., Faculty of Science and Letters.
1978-2006: Associate Editor, *International Journal of Engineering Science*.
1976-2006: Member of Editorial Advisory Board, *International Journal of Engineering Science*.
1973-2006: Member of Editorial Advisory Board, *Letters in Applied and Engineering Science*.
1990-1992: Member of the Research Group for Fundamental Sciences, TÜBİTAK.
1990-1991: Deputy Director, Marmara Research Center, TÜBİTAK.
1985-1986: Director, Gebze Research Center, TÜBİTAK.
1983-1987: Member of NATO Collaborative Research Grants Programme Panel.
1983-1985: Director, Research Institute for Fundamental Sciences, TÜBİTAK.
1981-1984: Editor-in-Chief, *İ. T. Ü. Bülteni*.
1968-1983: Head of the Department of Applied Mathematics, Marmara Scientific and Industrial Research Institute, TÜBİTAK.

MEMBERSHIPS

- Turkish Academy of Sciences (Founding Member, 1993, resigned on 2012)
Academia Europaea (1991)
International Society for the Interaction of Mechanics and Mathematics (1980)
Turkish National Committee for Theoretical and Applied Mechanics (Turkish Chapter of International Union for Theoretical and Applied Mechanics)
Turkish Mathematical Society
Society of Engineering Science (Founding Member, 1962)

PUBLICATIONS

BOOKS

INTERNATIONALLY PUBLISHED BOOKS

1. *Elastodynamics, Vol. I. Finite Motions* (with A. C. Eringen), pp. xv + 341, Academic Press, New York ve London, 1974.
2. *Elastodynamics, Vol. II. Linear Theory* (with A. C. Eringen), pp. xiii + 661, Academic Press, New York, San Francisco, London, 1975.
3. *Functional Analysis*, pp. xii + 691, Kluwer Academic Publishers, Dordrecht/Boston/London, 2003 (Now Springer Verlag).
4. *Exterior Analysis*, pp. xii + 767, Elsevier (*in press*, 2013).

NATIONALLY PUBLISHED BOOKS (In Turkish)

1. *Introduction Nonlinear Theory of Continuous Media*, pp. 126, Fac. Civ. Eng., İ. T. Ü., 1965.
2. *Fluid Mechanics*, pp. 332, Fac. Civ. Eng., İ. T. Ü., 1968.
3. *Dynamics of Rigid Bodies*, pp. viii + 768, İ. T. Ü., 1981.
4. *Fluid Mechanics*, pp. x + 440, Fac. Sci. and Letters, İ. T. Ü., 1993.
5. *Mechanics of Continuous Media - Introduction*, pp. ix + 248, Fac. Sci. and Letters, İ. T. Ü., 1994.
6. *Functional Analysis*, pp. ix + 638, İTÜ Vakfi Publications No. 38, İstanbul, 2001.
7. *Exterior Analysis*, pp. xiii + 646, TÜBA Yayınları, Ankara, 2008.

PAPERS

1. Design of Plates of Minimum Weight, *Bull. Tech. Univ. Istanbul*, **14**, 11-30, 1961.
2. A Problem in Plane Stress with Varying Thickness in Polar Coordinates, *Bull. Tech. Univ. Istanbul*, **14**, 101-107, 1961.
3. Temperature Distribution in Plates with Varying Thickness, *Bull. Tech. Univ. Istanbul*, **14/2**, 79-88, 1961.
4. The Bending of Rectangular Plates with Varying Thickness Simply Supported along Two Opposite Sides, *Bull. Tech. Univ. Istanbul*, **15**, 63-70, 1962.
5. The Most General Equation for Multigroup Neutron Diffusion in P_1 Approximation (with A. Y. Özemre), *Nükleonik*, **4**, 303-306, 1962.
6. Circular Bars Subjected to Loads Perpendicular to Their Planes, *Seminar Notes for Applied Mechanics*, 209-224, Fac. Civ. Eng., I. T. U., 1962 (in Turkish).
7. On Bending of Rectangular Plates of Varying Thickness, *Bull. Tech. Univ. Istanbul*, **16/1**, 1-6, 1964.
8. On a Simple Solution of the General Multigroup Neutron Diffusion Equations, *Bull. Tech. Univ. Istanbul*, **16/1**, 67-75, 1963.
9. An Approximate Plane Stress Analysis in Rectangular Plates with Linearly Varying Thickness, *Bull. Tech. Univ. Istanbul*, **16/2**, 1-10, 1963.
10. Longitudinal Vibrations of Circular Cylinder Coupled with a Thermal Field, *J. Mech. Phys. Solids*, **12**, 69-75, 1964.
11. Non-Linear Theory of Simple Micro - elastic Solids. I (with A. C. Eringen), *Int. J. Engng Sci.*, **2**, 189-203, 1964.
12. Nonlinear Theory of Micro - elastic Solids. II (with A. C. Eringen), *Int. J. Engng Sci.*, **2**, 389-404, 1964.
13. Small Torsional Oscillations of a Circular Cylinder with Finite Electric Conductivity in a Constant Axial Magnetic Field, *Int. J. Engng Sci.*, **2**, 441-459, 1965.
14. Small Longitudinal Vibration of an Initially Stretched Circular Cylinder, *Int. J. Engng Sci.*, **2**, 509-517, 1965.

15. Stress Distribution at Two Normally Intersecting Cylindrical Shells (with A. C. Eringen), *Nuclear Structural Engineering*, **2**, 253-270, 1965.
16. On the Vibration of Beams Carrying an Arbitrary Number of Concentrated Masses (with C. L. Amba-Rao), *Bull. Tech. Univ. Istanbul*, **18**, 7-16, 1965.
17. Propagation of Plane Waves in an Elastic Medium with Couple Stress, *Bull. Tech. Univ. Istanbul*, **19**, 1-15, 1966.
18. On the Theory of Bending of Thick Straight Bars (with T. Özbek), *Bull. Tech. Univ. Istanbul*, **20**, 1-17, 1966.
19. Theory of Thermoelastic Bending of Straight Bars, *Bull. Tech. Univ. Istanbul*, **20/2**, 1-18, 1967.
20. Bending Theory of Microelastic Bars, *Bull. Tech. Univ. Istanbul*, **20/2**, 19-28, 1967.
21. On the Foundation of the Theory of Rods, *Int. J. Engng Sci.*, **6**, 169-191, 1968.
22. Constitutive Theory, 1. Summer School on Continuum Mecanics, 19-24 August 1968, pp.20, 1969 (in Turkish).
23. Elastic Dielectrics with Polarization Gradients, *Int. J. Engng Sci.*, **7**, 993-997, 1969.
24. Small Torsional Oscillations of an Initially Twisted Circular Rubber Cylinder (with H. Demiray) *Int. J. Engng Sci.*, **8**, 19-30, 1970.
25. The Growth of Acceleration Waves of Arbitrary Form in Deformed Hyperelastic Materials, *Int. J. Engng Sci.*, **8**, 699-710, 1970.
26. Book Review: Mechanics of Generalized Continua (with A. A. Maradudin), Ed. E. Kröner, IUTAM - Symposium, Freudenstadt and Stuttgart (Germany), Springer - Verlag 1968, *Int. J. Engng Sci.*, **8**, 743-745, 1970.
27. A Two Dimensional Thermoelastic Problem for an Infinite Medium with Cavity, *Bull. Tech. Univ. Istanbul*, **24/2**, 54-73, 1971.
28. Radial Thermoelastic Oscillations of a Sphere, Prof. Dr. Mustafa İnan Anısına, Fac. Civ. Eng., 1-14, I. T. U., 1971 (in Turkish).
29. On the Propagation of Shock Waves in Hyperelastic Solids, *Bull. Tech. Univ. Istanbul*, **25/1**, 116-125, 1972.
30. Moving Rough Punch on an Elastic Half - Space, *Bull. Tech. Univ. Istanbul*, **25/2**, 72-110, 1972.
31. Moving Rough Punch on an Elastic Half - Plane, *Letters in Appl. and Engng Sci.*, **1**, 119-128, 1973.
32. Temperature Rate Dependent Thermoviscous Fluids (with A. C. Eringen), *Letters in Appl. and Engng Sci.*, **1**, 481-496, 1973.
33. Oscillations of Beams Carrying Concentrated Masses, Prof. Dr. T. O. Kabakçioğlu'nun Anısına, Faculty of Fundamental Sciences, I. T. U., 244-250, 1974 (in Turkish).
34. Propagation of a Plane Wave in an Initially Stressed Thermoelastic Medium (with H. M. Çekirge), *Bull. Tech. Univ. Istanbul*, **27/1**, 98-107, 1974.
35. Thermoelastic Solids, *Continuum Physics*, Vol. II- *Continuum Mechanics of Single-Substance Bodies* (Ed. A. C. Eringen), Part II, Ch. II, 173-265, Academic Press, New York, 1975.
36. Surface Waves in a Heavy Elastic Half-Space, *Letters in Appl. and Engng Sci.*, **3**, 239-245, 1974.
37. Diffraction of Scalar Elastic Waves by a Rigid Half - Plane Between Two Semi - Infinite Media (with Y. Önder and M. İdemen), *Letters in Appl. and Engng Sci.*, **3**, 15-24, 1975.
38. Propagation of Acceleration Waves in Generalized Thermoelastic Solids (with S. Dost), *Letters in Appl. and Engng Sci.*, **3**, 71-79, 1975.
39. Growth of Acceleration Waves in Generalized Thermoelastic Solids (with S. Dost), *Letters in Applied and Engng Sci.*, **3**, 245-263, 1975.
40. Propagation of Weak Discontinuities in a Layered Hyperelastic Half-Space (with A. Jeffrey), *Proc. Royal Soc. Edinburgh*, **75A**, 209-221, 1976.
41. Discrete Spectrum for a System of Electrically Charged Particles (with M. Demiralp), *J. Math. Phys.*, **18**, 777-785, 1977.
42. A New Theory for Thermoviscous Fluids, Proceedings of 4. Science Congress, TUBITAK, Ankara, 1973 (in Turkish).

43. Theory of Nonlocal Generalized Thermoelasticity (with F. Balta), *Int. J. Engng Sci.*, **15**, 579-588, 1977.
44. Wave Propagation in Dissipative or Dispersive Non - Linear Media (with M. Teymur), *J. Inst. Maths. Applics*, **21**, 25-40, 1978.
45. Torsional Oscillations of an Infinite Cylindrical Elastic Tube Under Large Internal and External Pressures (with H. Engin), *Int. J. Engng Sci.*, **16**, 387-396, 1978.
46. An Initial Value Problem in the Theory of Nonlinear Wave Propagation (with M. Teymur and M. N. Oguztörelili ile birlikte), *Nonlinear Analysis, Theory, Methods and Applications*, **3**, 1-9, 1979.
47. Wave Propagation in Dissipative or Dispersive Nonlinear Media (with M. N. Oguztörelili and K. V. Leung ile birlikte), *Applied Mathematics and Computation*, **6**, 309-334, 1980.
48. Generalised Thermoviscoelasticity, Proceedings of 1. National Congress of Mechanics, 282-296, TUBITAK, 1980.
49. A Nonlinear Asymptotic Theory of Thin Elastic Plates, Proceedings of 2. National Congress of Mechanics, 487-498, 1982.
50. A Generalized Theory of Simple Thermomechanical Materials, *Int. J. Engng Sci.*, **20**, 365-371, 1982.
51. An Asymptotic Theory of Thin Elastic Plates, *Bull. Tech. Univ. Istanbul*, **35**, 217-233, 1982.
52. Balance Laws of Continuum Physics, *Letters in Appl. and Engng Sci.*, **21**, 283-288, 1982.
53. An Asymptotic Nonlinear Theory of Anisotropic Thin Elastic Plates, *Bull. Tech. Univ. Istanbul*, **36**, 231-242, 1983.
54. Conservation Laws for One - Dimensional Isentropic Gas Flows, *Int. J. Engng Sci.*, **22**, 119-126, 1984.
55. A General Asymptotic Approximation to the Nonlinear Theory of Thin Elastic Plates (with H. A. Erbay), *Bull. Tech. Univ. Istanbul*, **38**, 247-272, 1985.
56. Longitudinal Wave Propagation in a Generalized Thermoelastic Cylinder (with S. Erbay), *J. of Thermal Stresses*, **9**, 279-295, 1986.
57. Conservation Laws for One - Dimensional Finite Elastodynamics, *Bull. Tech. Univ. Istanbul*, **40**, 437-451, 1987.
58. On the Conservation Laws of BBM Equation (with K. L. Chowdhury), *Int. J. Engng Sci.*, **25**, 1397-1402, 1987.
59. Griffith Criterion for Brittle Fracture in Micropolar Continuum (with J. P. Jarić), *Int. J. Engng Sci.*, **26**, 495-502, 1988.
60. Isovectors and Similarity Solutions for Nonlinear Reaction - Diffusion Equations (with K. L. Chowdhury), *Int. J. Engng Sci.*, **26**, 1027-1041, 1988.
61. Conservation Laws in Nonlinear Elastodynamics, *Int. J. Engng Sci.*, **27**, 441-453, 1989.
62. Nonlinear Wave Propagation in Micropolar Media-I. The General Theory (with S. Erbay), *Int. J. Engng Sci.*, **27**, 895-914, 1989.
63. Nonlinear Wave Propagation in Micropolar Media-II. Special Cases, Solitary Waves and Painlevé Analysis, (with S. Erbay), *Int. J. Engng Sci.*, **27**, 915-919, 1989.
64. On Wulff's Law About Equilibrium Configurations of Crystals (with A. Romano), *Int. J. Engng Sci.*, **27**, 1135-1142, 1989.
65. Balance Equations of Nonlocal Mechanics Revisited (with A. Romano), *Ricerche di Matematica*, **39**, 333-350, 1990.
66. Isovector Fields and Similarity Solutions for General Balance Equations, *Int. J. Engng Sci.*, **29**, 133-150, 1991.
67. A Class of Similarity Solutions for Radial Motions of Compressible Hyperelastic Spheres and Cylinders (with C. Tuncer), *Journal of Elasticity*, **25**, 259-287, 1991.
68. An Asymptotic Theory of Thin Hyperelastic Plates-I. General Theory (with H. A. Erbay), *Int. J. Engng Sci.*, **29**, 447-466, 1991.
69. An Asymptotic Theory of Thin Hyperelastic Plates-II. Incompressible Solids and an Application of the General Theory (with H. A. Erbay), *Int. J. Engng Sci.*, **29**, 467-480, 1991.

70. Group Properties and Similarity Solutions for a Quasi-Linear Wave Equation in the Plane (with A. Bakkaloğlu), *Int. J. Non - Linear Mechanics*, **26**, 567-584, 1991.
71. Similarity Solutions for One - Dimensional Nonlinear Elastodynamics, *Proceedings of the Vth International Meeting, Waves and Stability in Continuous Media* (Edit. S. Rionero) Series on Advances in Mathematics for Applied Sciences, **4**, 390-401, World Scientific, Singapore, 1991.
72. Boundary Layer Theory for Second Order Fluids (with M. Pakdemirli), *Int. J. Engng Sci.*, **30**, 523-532, 1992.
73. A Local Analysis of the Kolmogorov-Spiegel-Sivashinsky Equation (with G. Ünal), *Int. J. Engng Sci.*, **30**, 579-592, 1992.
74. Travelling Waves and Chaos in the Kolmogorov-Spiegel-Sivashinsky Model (with G. Ünal), *Int. J. Engng Sci.*, **30**, 593-610, 1992.
75. Similarity Solutions of Boundary Layer Equations for Second Order Fluids (with M. Pakdemirli), *Int. J. Engng Sci.*, **30**, 611-629, 1992.
76. Similarity Solutions for Plane Waves in Hyperelastic Materials, *Int. J. Engng Sci.*, **30**, 701-715, 1992.
77. Structure of Weiss Domains in Ferroelectric Crystals (with A. Romano), *Int. J. Engng Sci.*, **30**, 1715-1729, 1992.
78. Possible Configurations for Weiss Domains in Uniaxial Ferroelectric Crystals (with A. Romano), *Ricerche di Matematicá*, **42**, 149-158, 1993.
79. Symmetry Groups of Balance Equations, *Modern Group Analysis: Advanced Analytical and Computational Methods in Mathematical Physics*, Proceedings of the International Workshop Acireale, Catania, Italy, 27-31 Ekim 1992, 353-365, Kluwer Academic Publishers, Dordrecht, 1993.
80. Symmetry Groups and Similarity Solutions for Radial Motions of Compressible Heterogeneous Hyperelastic Spheres and Cylinders, *Int. J. Engng Sci.*, **32**, 817-837, 1994.
81. Structure of Weiss Domains in Elastic Ferroelectric Crystals (with A. Romano), *Int. J. Engng Sci.*, **32**, 1925-1939, 1994.
82. A Thermodynamical Approach to the Structure of Weiss Domains in Deformable Ferroelectric Crystals (with D. Iannece and A. Romano), *Int. J. Engng Sci.*, **32**, 1941-1950, 1994.
83. Symmetry Groups for Radial Motions of Compressible Hyperelastic Spheres and Cylinders (with C. Tuncer ile birlikte), *Int. J. Engng Sci.*, **33**, 1783-1806, 1995.
84. Boundary Layer Formation in Planar Uniaxial Ferroelectric Crystals with Domain Structure (with S. Ceyhan ile birlikte), *Bull. Tech. Univ. Istanbul*, **48**, 639-655, 1995.
85. Internal Waves of Arbitrary Shape in the Ocean, *Bull. Tech. Univ. Istanbul*, **49**, 185-200, 1996.
86. Symmetry Groups for One-Dimensional Longitudinal Motions of Thermoelastic Solids, *ARI*, **50**, 57-65, 1997.
87. Symmetry Groups for Arbitrary Motions of Hyperelastic Solids (with A. Bakkaloğlu), *Int. J. Engng Sci.*, **35**, 637-657, 1997.
88. Equivalence Transformations for One-Dimensional Wave Equations of Balance Form, *ARI*, **50**, 151-160, 1998.
89. Equivalence Transformations for One-Dimensional Wave Equations, *Mathematical methods in scattering theory and biomedical technology*, Ed. G. Dassios, D. I. Fotiadis, K. Kiriaki and C. V. Massalas, 215-231, Pitman Research Notes in Mathematical Series, Longman, 1998.
90. Equivalence Groups for Second Order Balance Equations, *Continuum Models and Discrete Systems*, Ed. E. Inan and K. Z. Markov, 617-631, World Scientific, Singapore, 1998.
91. The Stability of Poiseuille Flow of a Second Order Incompressible Rivlin-Ericksen Fluid (with S. Özer), *Continuum Models and Discret Systems*, Ed. E. Inan and K. Z. Markov, 827-829, World Scientific, Singapore, 1998.
92. Stability of Poiseuille flow of an Incompressible Second-Grade Rivlin Ericksen Fluid (with S. Özer), *ARI*, **51**, 221-227, 1999.
93. Equivalence Groups for Second Order Balance Equations, *Int. J. Engng Sci.*, **37**, 1901-1925, 1999.

94. Explicit Determination of Isovector Fields of Equivalence Groups for Second Order Balance Equations, *Int. J. Engng Sci.*, **38**, 715-736, 2000.
95. Equivalence Groups for Second Order Balance Equations, Convegno internazionale NUOVI PROGRESSI NELLA FISICA MATEMATICA DALL'EREDITÀ DI DARIO GRAFFI, Bologna, 24-27 May 2000, 237-256, Accademia Nazionale dei Lincei, Roma, 2002.
96. Equivalence Groups for First-Order Balance Equations and Applications to Electromagnetism (with S. Özer), *Theoretical and Mathematical Physics*, **137**(2), 1590-1597, 2003.
97. Equivalence Transformations for First Order Balance Equations (with S. Özer), *Int. J. Engng Sci.*, **42**, 1305-1324, 2004.
98. Equivalence Groups for Balance Equations of Arbitrary Order - Part I, *Int. J. Engng Sci.*, **42**, 1729-1751, 2004.
99. Explicit Determination of Isovector Fields of Equivalence Groups for Balance Equations of Arbitrary Order - Part II, *Int. J. Engng Sci.*, **43**, 1-15, 2005.
100. Flow of a Second Grade Fluid through a Cylindrical Permeable Tube (with S. Özer), *Applied Mathematics and Computation*, **179**, 672-687, 2006.

BOOK CHAPTERS

1. Thermoelastic Solids, *Continuum Physics*, Vol. II, *Continuum Mechanics of Single-Substance Bodies* (Ed. A. C. Eringen), Part II, Ch. II, pp. 173-265, Academic Press, New York, San Francisco, London, 1975.

RESEARCH REPORTS

1. Stress Distribution at Two Normally Intersecting Cylindrical Shells, *General Technology Corporation, U. S. A.*, Report # 3-7, 1965.
2. Propagation of Plane Waves in an Elastic Medium with Couple Stress, *Çekmece Nuclear Research Center*, Report No. 22, 1965.
3. Derivation of the Theory of Bars from Three-Dimensional Elasticity, TÜBİTAK Project No. MAG-58, 1966.
4. Microfluid Flow Past a Sphere (with N. Aslanç), *Applied Mathematics Unit, TÜBİTAK*, Report No. 5, 1969.
5. Motions of a Micropolar Elastic Infinite Continuum due to Body Forces and Couples, *Office of Naval Research*, Report # 7, 1969.
6. Some Boundary Value Problems in Micropolar Elastic Half-Space in Plane Strain, *Applied Mathematics Unit, TÜBİTAK*, Report No. 8, 1970.
7. A Two-Dimensional Thermoelastic Problem for an Infinite Medium with Cavity, *Applied Mathematics Unit, TÜBİTAK*, Report No. 14, 1971.
8. On the Propagation of Shock Waves in Hyperelastic Solids, *Applied Mathematics Unit, TÜBİTAK*, Report No. 15, 1971.
9. Moving Rough Punch on an Elastic Half-Space, *Applied Mathematics Unit, TÜBİTAK*, Report No. 16, 1972.
10. Wave Propagation in Dissipative or Dispersive Nonlinear Media (with M. Teymur), *Department of Applied Mathematics, MBEAE*, Report No. 34, 1976.
11. Quantum Mechanics of Electrically Charged Particles (M. Demiralp ile birlikte), *Department of Applied Mathematics, MBEAE*, Report No. 35, 1976.
12. **Lecture Notes:** Nonlinear Wave Propagation in Dissipative and Dispersive Media. Method of Inverse Spectral Transform, *Institute of Mathematics, University of Genova*, Italy, 1-30 September 1982.
13. **Lecture Notes:** Materials with Fading Memory, *Institute for Rational Mecanics, University of Napoli*, Italy, 17 September-17 October 1983.
14. **Lecture Notes:** Nonlocal Field Theories of Continuum Mechanics, *Department of Mathematics and its Applications, University of Napoli*, Italy, 4 September-4 October 1985.

15. On the Conservation Laws of BBM Equation (with K. L. Chowdhury), *Department of Mechanical Engineering, University of Calgary, Canada*, Report # 389, March 1987.
16. An Introduction to Nonlocal Field Theories of Continua, *Department of Mechanical Engineering, University of Calgary,*, Report # 390, March 1987.
17. Isovectors and Similarity Solutions for Non - Linear Reaction - Diffusion Equations (with K. L. Chowdhury ile birlikte), *Department of Mechanical Engineering, University of Calgary, Canada*, Report # 394, April 1987.
18. **Lecture Notes:** Some Applications of Exterior Differential Forms in Continuum Mechanics, *Department of Mathematics and its Applications*, University of Napoli, Italy, 5 September-5 October 1988.
19. **Lecture Notes:** Similarity Solutions of Field Equations of Continuum Mechanics, *Department of Mathematics and its Applications*, University of Napoli, Italy, 2 September-1 November 1989.
20. **Lecture Notes:** Similarity Solutions for Balance Equations, *Department of Mathematics and its Applications*, University of Napoli, Italy, 2 September-3 November 1991.

CITATIONS

SELF CITATIONS

88

CITATION BY OTHER AUTHORS

2547 (as of March 2021) + 402

RESEARCH AREAS

The axiomatic foundations of the physics, particularly mechanics, of continuous media; Electromagnetic ve thermal interactions; Structural properties of field equations associated with continuous media such as symmetry and equivalence groups, group-invariant solutions, conservation laws; Non-local field theories and micromorphic materials; Linear and non-linear waves; Application of functional analysis and exterior calculus to the investigation of certain properties of field equations of continuous media.