

# Sushil Kumar Tomar



**Professor**  
**Department of Mathematics**  
**Panjab University, Chandigarh (INDIA)**  
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**Born on:** February 02, 1966

## **QUALIFICATIONS**

### **Ph. D. (1994):**

Thesis Title: Wave Propagation in Micropolar Elastic Solids (Mentor: Prof. M. L. Gogna)  
Institution: Department of Mathematics, Kurukshetra University, Kurukshetra – 136 119, Haryana, INDIA

### **M. Phil. (1987):**

Dissertation Title: Reflection, refraction and diffraction of pulses in layered media. Institution: Department of Mathematics, Kurukshetra University, Kurukshetra – 136119, Haryana, INDIA

### **M. Sc. (1986):**

Institution: Department of Mathematics, Kurukshetra University, Kurukshetra – 136 119, Haryana, INDIA

### **Research Interests:**

Applied Mathematics-Mechanics of Continuous Media, Fluid Convection, Numerical Methods

**TOTAL TEACHING/ RESEARCH EXPERIENCE:** **33+ years**

**RESEARCH PUBLICATIONS:** **One Hundred Nineteen (119) (List Attached)**

**EXTENSION LECTURES DELIVERED:** **One hundred thirty one (131)**

### **ADMINISTRATIVE EXPERIENCE:**

- Worked as Chairperson, Department of Applied Mathematics, Guru Jambheshwar University, Hisar (Haryana) and established the department during 1995-1996. I was also engaged in various activities of this University in its formative stages.
- Worked as Warden, Boys Hostel No. – 7, Panjab University, Chandigarh, from 12-12-2003 to 31-05-2005, in addition to my teaching and research assignments.
- Chairperson, Department of Mathematics, Centre for Advanced study in Mathematics, Panjab University, Chandigarh from February 1, 2012 to January 31, 2015
- Coordinator of UGC-CAS Programme of Department of Mathematics, Panjab University, Chandigarh appointed from January, 2012 for phase V and VI.
- Honorary Director, UGC-HRDC, Panjab University, Chandigarh from July 05, 2019 to till date.
- Dean Student Welfare, Panjab University, Chandigarh since June 01, 2020 to till date.
- Dean Research, Panjab University, Chandigarh, October 01, 2021 to till date.

## **VISITS ABROAD:**

- ICIAM, Zurich, SWITZERLAND during 2007.
- Department of Mathematics, University of Glasgow, Glasgow, UK under INSA-Bilateral exchange program during 2009 to collaborate research work with Prof. R. W. Ogden.
- Institute of Mechanics-Continuum Mechanics, Ruhr University, Bochum, Germany under DST-DAAD program during 2011 to collaborate research work with Prof. HolgerSteeb.
- ICIAM, Vancouver, CANADA, during 2011.
- Institute of Applied Mechanics, Budapest University of Technology and Economics, Budapest, HUNGARY under Indo-Hungarian educational exchange program during 2012 to collaborate research work with Prof. Gyula Beda.
- School of Mathematics and Statistics, University of Glasgow, Glasgow, UK under INSA-Royal Society Edinburg exchange of scientists program during 2013 to collaborate research work with Prof. R. W. Ogden.
- ICIAM, Beijing, CHINA, during August 2015.
- ICIAM, Valencia, SPAIN during July 2019.

## **AWARDS AND HONORS:**

Elected Fellow of **The National Academy of Sciences, India**, in the year 2017.

Member of **International Academy of Physical sciences**, Allahabad (2019)

First prize awarded for best seminar presentation in the Fifth SERC School on Advanced Geophysical Fluid Dynamics: Dynamics of Earth's Fluid System (Sponsored by Department of Science and Technology, New Delhi) in the year 1999 at National Geophysical Research Institute, Hyderabad, India

Elected Vice-President of Madras-India Regional Chapter of Acoustical Society of America (**MIRC-ASA**) for the year 2000-2001.

**28<sup>th</sup> P L Bhatnagar Memorial Award Lecture of Indian Mathematical Society** at 80<sup>th</sup> Annual conference of **Indian Mathematical Society** held at Indian School of Mines, Dhanbad (Jharkhand) during December 27-30, 2014.

Founder President of "**Chandigarh Vigyan Parisad**" Registered at Chandigarh under Society Registration Act (XXI of 1980) and amended by Punjab Amendment Act, 1957 (Registration No 4590 of 2016).

Advisor of Panjab University Study Centre of **Panchnad Research Institute (PRI)**

**Governor's nominee on the Executive Council of Guru Jambheshwar university of Science and Technology, Hisar (Haryana)** from July, 2016 to June, 2018, August 2018 to July 2020 and October 2020- September 2022.

Member of **Academic Council & Expert member on the Faculty of Sciences, K U Kurukshetra**, for a period of two years w.e.f. 04/05/2017.

Certificate of outstanding contribution in reviewing award, September 2017 from International Journal of Solids and Structures.

Member of **Academic Advisory Council for MOOCs at CEC** (Consortium for Educational Communication), New Delhi for the period Nov 2017 to Nov 2020.

Nominates as member of **Executive council of Central University of Himachal Pradesh** for a period of three years started from January 10, 2020.

Unanimously elected as Vice- President of **ALL INDIA ASSOCIATION OF VICE CHANCELLORS & ACADEMICIANS**, New Delhi for the period 2020 to 2025.

Appointed as ex-officio member of the academic advisory committee of the **UGC-HRDC of GNDU Amritsar** from 1.4.2019 to 31.3.2021

Member of Advisory Committee of UGC-HRDC, Panjab University Chandigarh from 2019 to 2021.

Nominated as an External expert representative on the Faculty of Education, Kurukshetra University, Kurukshetra (Haryana) for two years w. e. f. 04/12/2019.

**Governor's nominee on the 'Academic Planning Board' of Maharshi Dayanand University, Rohtak for a term of three years w.e.f. April 1, 2021.**

**Governor's nominee on the 'Academic Planning Board' and 'Court' of Kurukshetra University, Kurukshetra respectively for a term of two years and three years w.e.f. April 1, 2021.**

Outside expert member of MDU FDC Advisory Board for a period of two year w.e.f. June 9, 2021.

Appointed as member of the Academic Advisory Committee of the UGC-HRDC of GJU Hisar from 16.08.2020 to 15.08.2022.

Nominated external expert on the Departmental Research Committee, Department of Mathematics, NIT Kurukshetra and Chandigarh University, Punjab for a period of two years w.e.f. October 2021.

Presently on the BOS of Department of Mathematics of Kurukshetra University, Chandigarh University, University of Ladakh.

#### **RESEARCH SUPERVISION:**

Ph D Completed  
Registered

Eight  
Three

## Thesis supervised: Name, title and year of passing

1. **Jatinder Kaur**: Reflection and transmission of SH-waves at a corrugated interface, (2007).
2. **Sanasam Sarat Singh**: Elastic waves at a corrugated interface in anisotropic elastic solids, (2008).
3. **Dilbag Singh**: Some dynamical problems in micropolar elasticity, (2008).
4. **Aarti Khurana**: Propagation of elastic waves in micropolar continuum, (2009).
5. **Ashish Arora**: Wave propagation in porous elastic solid containing two immiscible fluids, (2010)
6. **Jaswant Singh**: Plane waves in elastic material with voids, (2010)
7. **Jai Bhagwan**: Propagation of waves in thermo-viscoelastic material with voids, (2016).
8. **Suraj Goyal**: Elastic waves in swelling porous medium containing two immiscible fluids, (2016).

## LIST OF RESEARCH PUBLICATIONS

(Author(s), Title, Journal name, Issue no., Year, Pages)

1. **S K Tomar** and M. L. Gogna: Reflection and refraction of a longitudinal micro-rotational wave at an interface between two micropolar elastic solids in welded contact, *Int. J. Engng. Sci.*, **30** (11), (1992), 1637-1646.
2. V. P. Kaushik and **S K Tomar**: Surface waves in vertically heterogeneous and transversely isotropic layer overlying a homogeneous isotropic half-space and under a uniform layer of liquid, *J. Phys. Earth*, **42**, (1994), 485-496.
3. **S K Tomar** and M. L. Gogna: Reflection and refraction of coupled transverse and micro-rotational waves at an interface between two different micropolar elastic media in welded contact, *Int. J. Engng. Sci.*, **33**(4), (1995), 485-496.
4. **S K Tomar** and R. Kumar: Reflection and refraction of longitudinal displacement wave at a liquid-micropolar solid interface, *Int. J. Engng. Sci.*, **33** (10), (1995), 1507-1515.
5. S. L. Saini and **S K Tomar**: Surface wave propagation in anisotropic elastic layer sandwiched between a uniform layer of liquid and heterogeneous solid elastic half-space, *Indian J. Pure Applied Math.*, **26**(10), (1995), 1021-1033.
6. **S K Tomar** and M. L. Gogna: Reflection and refraction of longitudinal waves at an interface between two micropolar elastic media in welded contact, *J. Acoust. Soc. Am.*, February, **97** (1995), 822-830. [Erratum: in *J. Acoust. Soc. Am.*, **102**, (1997), 2452]
7. R. Kumar and **S K Tomar**: Propagation of micropolar waves at boundary Surface, *Indian J. Pure Applied Math.*, **27**(8), (1996), 821-835.

8. **S K Tomar** and S. L. Saini: Reflection and refraction of SH - waves at a corrugated interface between two-dimensional transversely isotropic half-spaces, *J. Phys. Earth*, **45**, (1997), 347-362.
9. **S K Tomar**, R. Kumar and V. P. Kaushik: Wave propagation in a micropolar elastic medium with stretch, *Int. J. Engng. Sci.*, **36**(5-6), (1998), 683-698.
10. **S K Tomar** and R. Kumar: Wave propagation at liquid/micropolar elastic solid interface, *J. Sound Vibr.*, **222**(5), (1999), 858-869.
11. **S K Tomar** and R. Kumar: Elastic wave propagation in a cylindrical bore situated in a micropolar elastic medium with stretch, *Proc. Indian. Acad. Sc. (Math. Sci.)*, **109**(4), (1999), 425-433.
12. S. Deswal, **S K Tomar** and R. Kumar: Effect of fluid viscosity on wave propagation in a cylindrical bore in micropolar elastic medium, *Sadhana*, **25**(5), (2000), 439 - 452.
13. R. Kumar and **S K Tomar**: Reflection and transmission of elastic waves at viscous liquid/micropolar interface, *Int. J. Math. Math. Sci.*, **26**(11), (2001), 685-694.
14. **S K Tomar**, R. Kumar and A. Chopra: Reflection/refraction of SH-waves at corrugated interface between transversely isotropic and visco-elastic solid half-spaces, *Acta Geophysica Polonica*, **50**(2) (2002),231-249.
15. **S K Tomar**: Wave Propagation in a micropolar elastic layer, *Proc. Nat. Acad. Sci, India, Sec-A (Phys. Sci.)* **72**(4), (2002), 339-350.
16. R. Kumar, S. Deswal and **S K Tomar**: A note on surface wave dispersion of a 1-layer micropolar liquid saturated porous half-space, *ISCT Journal of Earthquake Technology*, **39**(4), (2002), 367-382.
17. R. Kumar, **S K Tomar** and A. Chopra: Reflection/refraction of SH-waves at corrugated interface between two different anisotropic and vertically heterogeneous elastic solid half-spaces, *ANZIAMJ. (Formerly Journal of Australian Mathematical Society-Series B: Applied Mathematics)* **44**,(2003), 447-460.
18. **S K Tomar** and J. Kaur: Reflection and transmission of SH-waves at a corrugated interface between two anisotropic heterogeneous elastic solid half-spaces, *Earth Planets and Space*, **55**(9), (2003), 531-547.
19. **S K Tomar** and N. K. Dhiman: 2-D deformation analysis in a half-space due to a long dip-slip fault at finite depth, *Proc. Indian Nat. Sci. Acad. (Earth Planet Sci)*, **112**(4), (2003), 587-596.

20. V. Verma and **S K Tomar**: A note on programming problem, *Journal of Decision and Mathematical Sciences*, **8**(1-3), (2003), 13-20.
21. **S K Tomar** and H. Singh: Radial vibrations due to a spherical cavity contained in an unbounded micropolar elastic medium, *Indian J. Pure and Applied Math.*, **34**(2), (2003), 1785-1796.
22. S. Choudhary, **S K Tomar** and V. P. Kaushik: Transmission of plane SH-waves through a self-reinforced elastic slab sandwiched between two anisotropic inhomogeneous elastic solid half-spaces, *Int. J. Appl. Mech. Engng.*, **9**(1), (2004), 131-146.
23. S. Chaudhary, V. P. Kaushik and **S K Tomar**: Reflection/ transmission of plane SH-waves through a self-reinforced elastic layer between two half-spaces, *Acta Geophysica Polonica*, **52**(2), (2004), 219-235.
24. **S K Tomar** and Baljeet Singh: SH-wave response to an elastic layer sandwiched between two half-spaces, *Int. J. Appl. Mech. Engng.*, **10**(2), (2005), 329-343.
25. J. Kaur and **S K Tomar**: Reflection and transmission of SH-wave at a corrugated interface between two monoclinic half-spaces, *Int. J. Num. Anal. Methods Geomech.*, **28**(15), (2004), 1543-1575.
26. **S K Tomar** and Monika Garg: Reflection and refraction of plane waves in microstretch elastic medium, *Int. J. Engng. Sci.*, **43**(1-2), (2005), 139-169.[Erratum: *ibid*, **44**(3-4), (2006) 285-287]
27. J. Kaur, **S K Tomar** and V. P. Kaushik: Reflection and transmission of SH-waves at a corrugated interface between two laterally and vertically heterogeneous visco-elastic half-spaces, *Int. J. Solid Struc.*, **42**(13), (2005), 3621-3643.
28. **S K Tomar** and Jaswant Singh: Transmission of Longitudinal waves through a plane interface between two dissimilar porous elastic solid half-spaces, *Appl. Math. Comput.*, **169**(1), (2005), 671-688.
29. **S K Tomar**: Wave propagation in a micropolar elastic layer sandwiched between liquid half space and micropolar elastic solid half-space, *Int. J. Appl. Mech. Engng.*, **12**(1), (2007), 255-262.
30. **S K Tomar**: Wave propagation in a micropolar elastic plate with voids, *J. Vibr. Cont.*, **11**(6) (2005), 849-863.
31. S. Chaudhary, V. P. Kaushik, **S K Tomar**: Transmission of shear waves through a self-reinforced Layer sandwiched between two inhomogeneous viscoelastic half-spaces, *Int. J. Mech. Sci.*, **47**(9) (2005), 1455-1472.
32. Neela Rani and **S K Tomar**: Convection of micropolar heated fluid with rotation in hydro-magnetic, *Int. J. Fluid Mech. Res.*, **32**(6), (2005), 675-690.

33. **S K Tomar** and Ashish Arora: Reflection and transmission of elastic waves at an elastic/porous half-space saturated by two immiscible fluids, *Int. J. Solid Struct.*, **43**(7-8) (2006), 1991-2013. [Erratum: *ibid*, **44**(17), (2007), 5796-5800]
34. **S K Tomar** and Sanasam Sarat Singh: Plane SH-waves at a corrugated interface between two different perfectly conducting self-reinforced elastic half-spaces, *Int. J. Num. Anal. Methods Geomech.*, **30**(6),(2006), 455-487.
35. J.Singh and **S K Tomar**: Reflection and transmission of transverse waves at a plane interface between two different porous elastic solids half-spaces, *Applied Mathematics and Computation*, **176**(1), (2006), 364-378.
36. Yajuvindra Kumar and **S K Tomar**: Free transverse vibrations of monoclinic rectangular plates with continuously varying thickness and density, *Int. J. Appl. Mech. Engng.*, **11**(4), (2006), 881-900.
37. S. Choudhary, V. P. Kaushik and **S K Tomar**: Plane SH-wave response from elastic slab interposed between two different self-reinforced elastic solids, *Int. J. Appl. Mech. Engng.*, **11**(4), (2006), 787-801.
38. **S K Tomar** and Dilbag Singh: Propagation of Stoneley waves at an interface between two microstretch elastic half-spaces, *J. Vibr. Cont.*, **12**(9), (2006), 995-1009 [Erratum: *bid*, **13**(12), (2007), 1835-1836].
39. Dilbag Singh and **S K Tomar**: Wave propagation in micropolar mixture of porous media, *Int. J. Engng. Sci.*, **44**(18-19), (2006), 1304-1323.
40. **S K Tomar** and J. Singh: Plane waves in micropolar porous elastic solid, *Int. J. of Appl. Math. Mech.*, **2**(3), (2006), 52-70 [Erratum, *ibid*, **4**(5), (2008), 42-44].
41. Sanasam Sarat Singh and **S K Tomar**: Quasi P-waves at a corrugated interface between two dissimilar monoclinic elastic half-spaces, *Int. J. Solid Struct.*, **44**(1), (2007), 197-228.
42. S. S. Singh and **S K Tomar**: Shear waves at a corrugated interface between two dissimilar fibre-reinforced elastic half-spaces, *J. Mech. Mat. Struct.*, **2**(1), (2007), 167-188.
43. Sanasam Sarat Singh and **S K Tomar**: Elastic waves at a corrugated interface between two dissimilar fibre-reinforced elastic half-spaces, *Int. J. Num. Anal. Methods Geomech.*, **31**(9), (2007), 1085-1116.
44. **S K Tomar** and J. Kaur: SH-waves at a corrugated interface between a dry sandy half-space and an anisotropic elastic half-space, *Acta Mechanica*, **190**, (2007), 1-28.



45. Aarti Khurana and **S K Tomar**: Propagation of plane elastic waves at a plane interface between two electro-microelastic solid half-spaces, *Int. J. Solid. Struct.*, **44**(11-12), (2007), 3773-3795.
46. Ashish Arora and **S K Tomar**: Elastic waves at porous/porous elastic half-spaces saturated by two immiscible fluids, *J. Porous Media*, **10**(8), (2007), 751-768.
47. Dilbag Singh and **S K Tomar**: Rayleigh-Lamb waves in a microstretch elastic plate cladded with liquid layers, *J. Sound Vibr.*, **32**(1-2), (2007), 313-331.
48. A. Arora and **S K Tomar**: Elastic waves along a cylindrical borehole in a poroelastic medium saturated by two immiscible fluids, *J. Earth Syst. Sci.*, **116**(3), (2007), 225-234.
49. **S K Tomar** and J. Kaur: Reflection and transmission of SH-waves at a corrugated interface between anisotropic elastic and visco-elastic solid half-spaces, *J. Seismology*, **3**, (2007), 235-258.
50. V. Kanwar and **S K Tomar**: Modified families of Newton, Halley and Chebyshev methods, *Appl. Math. Comput.*, **192**, (2007), 20-26.
51. J. Singh and **S K Tomar**: Plane waves in thermo-elastic material with voids, *Mechanics of Materials*, **39**(10), (2007), 932-940.
52. V. Kanwar and **S K Tomar**: Modified families of multi-point iterative methods for solving nonlinear equations, *Num. Algorithm*, **44** (4), (2007), 381-389.
53. **S K Tomar**: Elastic wave propagation in materials with voids-A review, *Math. Student*, The Special Centenary Volume, (2007), 241-260.
54. J. Singh and **S K Tomar**: Plane waves in a rotating micropolar porous elastic solid, *J. Appl. Phys.*, **102**, (2007).
55. D. Singh and **S K Tomar**: Longitudinal waves at a micropolar fluid/solid interface, *Int. J. Solid Struct.*, **45**, (2008), 225-244.
56. **S K Tomar** and Aarti Khurana: Elastic wave propagation in electro-microelastic solid, *Int. J. Solid Struct.*, **45**, (2008), 276-302.
57. Aarti Khurana and **S K Tomar**: Transmission of longitudinal wave at a plane interface between micropolar elastic and chiral solid half-spaces: Incidence from micropolar half-space, *J. Sound Vibr.*, **311**, (3-5), (2008), 973-990.
58. Ashish Arora and **S K Tomar**: The effect of inertial coupling on seismic reflection amplitudes, *Geophysical Prospecting*, **56**, (2008), 643-654.

59. S. S. Singh and **S K Tomar**: qP-wave at a corrugated interface between two dissimilar pre-stressed elastic half-spaces, *J. Sound Vibr.*, **317**(3-5), (2008), 687-708.
60. Dilbag Singh and **S K Tomar**: Waves in a cylindrical borehole filled with micropolar fluid, *J. Appl. Phys.*, **103**(12), 124905 (2008).
61. Vinay Kanwar and **S K Tomar**: Exponentially fitted variants of Euler's method for ODEs, *Int. J. Math. Educ. Sci. Tech.*, **39**(8), (2008), 1112-1116.
62. V. Kanwar and **S K Tomar**: Exponentially fitted variants of Newton's method with quadratic and cubic convergence, *Int. J. Comp. Math.*, **86**(9), (2009), 1603-1611.
63. Aarti Khurana and **S K Tomar**: Longitudinal wave response of a chiral slab interposed between micropolar solid half-spaces, *Int. J. Solid Struct.*, **46**, (2009), 135-150.
64. **S K Tomar** and Aarti Khurana: Reflection and transmission of elastic waves from a plane interface between two thermo-microstretch solid half-spaces, *Int. J. of Appl. Math. & Mech.*, **5**(4), (2009), 48-68.
65. Neela Rani and **S K Tomar**: Thermal Convection problem of micropolar fluid subjected to Hall currents, *Appl. Math. Model.*, **34**, (2010), 508-519.
66. Ashish Arora and **S K Tomar**: Seismic reflection from an interface between an elastic solid and a fractured porous medium with partial saturation, *Transp. Porous Med.*, **85**(2) (2010), 375-396.
67. Neela Rani and **S K Tomar**: Double-diffusive convection of micropolar fluid with Hall effects, *Int. J. of Appl. Math. & Mech.*, **6**(19), (2010), 67-87.
68. S. Chaudhary, V. P. Kaushik, **S K Tomar**: Transmission of plane SH – wave through a monoclinic layer embedded between two different self-reinforced elastic solid half-spaces, *Int. J. of Appl. Math. & Mech.*, **6**(19), (2010), 22-43.
69. **S K Tomar** and Aarti Khurana: Transmission of longitudinal wave through micro-porous elastic solid, *Int. J. Engng. Sci. & Tech.*, **3**(2), (2011), 12-21.
70. J. Singh and **S K Tomar**: Plane waves in a rotating generalized thermo-elastic solid with voids, *Int. J. Engng. Sci. & Tech.*, **3**(2) (2011), 34-41.
71. **S K Tomar** and Neela Rani: Propagation of plane waves in microstretch fluid, *Appl. Math. Model.* **35** (12), (2011), 5751-5765.

72. Sanjeev Kumar, V. Kanwar, **S K Tomar**, and Sukhjit Singh: Geometrically constructed families of Newton's method for unconstrained optimization and nonlinear equations, *Int. J. Math Math Sci.*, Vol. **2011** (2011), Article ID 972537, 9 pages.
73. V. Kanwar, **S K Tomar**, Sukhjit Singh and Sanjeev Kumar: Note on Super-Halley method and its variants, *Tamsui Oxford Journal of Information and Mathematical Sciences*, **28**(2), (2012), 191-216.
74. Neela Rani and **S K Tomar**: Thermal instability of compressible micropolar fluid in the presence of suspended particles, *J. Mech.*, **28**(2) (2012), 239-246.
75. H. Steeb, J. Singh, **S K Tomar**: Time harmonic waves in thermo-elastic material with micro-temperatures, *Mech. Res. Commun.*, **48**, (2013), 8-18.
76. Aarti Khurana and **S K Tomar**: Reflection of plane longitudinal waves from stress-free boundary of a nonlocal, micropolar elastic solid half-space, *J. Mech. Mat. Struc.*, **8**(1), (2013), 95-107.
77. Aarti Khurana, **S K Tomar**: Wave propagation in thermo-chiral elastic medium, *Appl. Math. Model.* **37**(22), 15 November (2013), 9409-9418, DOI: 10.1016/j.apm.2013.04.029
78. **S K Tomar** and Suraj Goyal: Elastic waves in swelling porous media, *Transp. Porous Med.*, **100**(1), (2013), 39-68[Erratum: *ibid*, **103**(2), (2014), 315-324].
79. **S K Tomar**, J. Bhagwan, H. Steeb: Time harmonic waves in thermo-viscoelastic material with voids, *J. Vibr. Control*, **20**(8), (2014), 1119-1136.
80. **S K Tomar** and R W Ogden: Two-dimensional wave propagation in rotating elastic media with voids, *J. Sound Vibr.*, **333**(7), (2014), 1545-1552.
81. Ramesh Chander and **S K Tomar**: An integral-free expression for short-term changes in fault stability due to pore pressure induced when a point load is placed on the pervious boundary of a porous elastic half space containing a fault, *J. Earth Syst. Sci.*, **123** (7), (2014), 1729 - 1738.
82. J. Bhagwan and **S K Tomar**: Reflection and transmission of plane dilatational wave at a plane interface of elastic solid and thermo-viscoelastic solid half-space with voids, *Journal of Elasticity*, **121**, (2015), 69-88.
83. Ashish Arora, Abhishak and **S K Tomar**: Body waves in composite solid matrix containing two immiscible fluids, *Transport in Porous Media*, **108**, (2015), 531-554.
84. Suraj Goyal and **S K Tomar**: Reflection and transmission of inhomogeneous waves at the plane interface between two dissimilar swelling porous half-spaces, *Special Topics & Reviews in Porous Media - An International Journal*, **6**(1), (2015), 51-69.

85. Suraj Goyal and **S K Tomar**: Reflection/refraction of a dilatational wave at a plane interface between uniform elastic and swelling porous half-spaces, *Transport in Porous Media*, **109(3)**, (2015) 609-632.
86. **S K Tomar**: Wave propagation in local and nonlocal microstretch elastic media, *The Mathematics Student*, **84(3-4)**, (2015), 1-23.
87. Jai Bhagwan, Dilbag Singh and **S K Tomar**: Rayleigh waves in thermo-viscoelastic material half-space with voids, *Special Topics & Reviews in Porous Media -An International Journal*, **6(3)**, (2015), 283-296.
88. N. Rani and **S K Tomar**: EHD Convection in a dielectric micropolar fluid layer, *Journal of Electrostatics*, **78**, (2015), 60-67.
89. Dilbag Singh, N. Rani and **S K Tomar**: Dilatational waves at microstretch solid/fluid interface, *J. Vib. Cont.*, **Online** (2016).
90. A. Khurana and **S K Tomar**: Wave propagation in nonlocal microstretch solid, *Appl. Math. Mod.*, **40(11-12)**, (2016), 5858-5875.
91. Ashish Arora, Neeru Bala **S K Tomar**: A mathematical model for wave propagation in a composite solid matrix containing two immiscible fluids, *Acta Mech.*, **227(5)**, (2016), 1453-1467.
92. Suraj Goyal, Dilbag Singh and **S K Tomar**: Rayleigh-Type waves in swelling porous half-space, *Transport in Porous Media*, **113(1)**, (2016), 91-109.
93. Ramesh Chander and **S K Tomar**: On a model simulating lack of hydraulic connection between a manmade reservoir and the volume of poroelastic rock hosting the focus of a post-impoundment earthquake, *J. Earth Syst. Sci.*, **125(8)**, (2016), 1543-1555.
94. Aarti Khurana and **S K Tomar**: Propagation of Rayleigh-type surface waves in nonlocal micropolar elastic solid half-space, *Ultrasonics*, **73** (2017), 162-168.
95. Dilbag Singh, Gurvinderpal Kaur and **S K Tomar**: Waves in nonlocal elastic solid with voids, *Journal of Elasticity*, **128**, (2017), 85-114.
96. Jai Bhagwan and **S K Tomar**: Transmission of waves through a plane interface between two dissimilar thermo-viscoelastic half-spaces with voids, *The Mathematics Student*, **86(3-4)**, (2017), 67-89.
97. Aarti Khurana and **S K Tomar**: Waves at interface of dissimilar nonlocal micropolar elastic half-spaces, in press, *Mech. Adv. Mat. Struct.* **26(10)** (2019), 825-833.

98. Gurwinderpal Kaur, Dilbag Singh and **S K Tomar**: Rayleigh-type wave in a nonlocal elastic solid with voids, *Eur. J. Mech.-A/Solids* 71, (2018), 134-150.
99. **S K Tomar**, Nisha Goyal and A. Szekeres: Plane waves in thermo-visco-elastic material with voids under different theories of thermo-elasticity, *Int. J. Appl. Mech. Eng.* 24(3), (2019), 691-708.
100. N. Sarkar and **S K Tomar**: Plane waves in nonlocal thermo-elastic solid with voids, *J. Thermal Stresses*, **42(5)**, (2019), 580-606.
101. Gurwinderpal Kaur, Dilbag Singh and **S K Tomar**: On Love-type waves in a nonlocal elastic layer with voids, *J. Vib. Cont.*, **25(8)** (2019), 1470-1483.
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