

CURRICULUM - VITAE



Dr. ABHISHEK KUMAR SINGH

Professor

Department of Mathematics and Computing

Indian Institute of Technology (ISM) Dhanbad, India

PERSONAL INFORMATION :

Date of Birth: 05-Sep-1981

Nationality: INDIAN

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Indian Institute of Technology (ISM) Dhanbad-826004, Jharkhand, India

ACADEMIC QUALIFICATION :

B. Sc. (Maths, Physics, Chemistry)	2005	University of Allahabad, Allahabad, India
M. Sc. (Mathematics and Computing)	2007	Indian School of Mines, Dhanbad, India
M. Phil. (Applied Mathematics)	2008	Indian School of Mines, Dhanbad, India
Ph.D. (Elastodynamics)	2011	Indian School of Mines, Dhanbad, India

ACADEMIC EXPERIENCE

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1	Lecturer	Thapar University, Patiala	17/01/2011	21/04/2011	PB-3 (15,600-39,100) AGP-3000
2	Lecturer	Thapar University, Patiala	22/04/2011	16/04/2012	PB-3 (15,600-39,100) AGP-6000
3	Assistant Professor	Thapar University, Patiala	17/04/2012	30/06/2013	PB-3 (15,600-39,100) AGP-7000
4	Assistant Professor	Indian School of Mines, Dhanbad	01/07/2013	05/09/2013	PB-3 (15,600-39,100) AGP-6000
5	Assistant Professor	Indian School of Mines, Dhanbad	06/09/2013	16/08/2014	PB-3 (15,600-39,100) AGP-7000
6	Assistant Professor	IIT (ISM), Dhanbad	17/08/2014	16/08/2017	PB-3 (15,600-39,100) AGP-8000

7	Assistant Professor	IIT (ISM), Dhanbad	17/08/2017	05/06/2019	Pay Level 13A1
8	Associate Professor	IIT (ISM), Dhanbad	06/06/2019	23/02/2025	Pay Level 13A2
9	Professor	IIT (ISM), Dhanbad	24/02/2025	Till date	Pay Level 14A

HONORS/ AWARDS/:

S.No.	Name of Award	Awarding Agency	Year
1	Canara Bank Research Publication Award	IIT (ISM), Dhanbad	2018
2	Canara Bank Research Publication Award	IIT (ISM), Dhanbad	2017
3	Performance Incentive Scheme	Thapar University, Patiala	2011-2012
4	Best Poster Presentation Award for Mathematical Science	97 th INDIAN SCIENCE CONGRESS held in Kerala University, Thiruvananthapuram, Kerala, India during 3-7 Jan 2010.	2010

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS:

1. Presently Life member (Membership No. **L15019**) of “**THE INDIAN SCIENCE CONGRESS ASSOCIATION**”, Kolkata, India.
2. Presently Life member of “**VON KARMAN SOCIETY FOR ADVANCED STUDY AND RESEARCH IN MATHEMATICAL AND SOCIAL SCIENCES**”, Jalpaiguri, West Bengal.
3. Presently Life member of “**THE INDIAN MATHEMATICAL SOCIETY**”, Pune, India.
4. Outreach Member of “**Society for Industrial and Applied Mathematics**” with reference number as 7242156042.

REVIEWER:

Serving as reviewer to some SCI journals of American Society of Civil Engineers (ASCE), SAGE, Springer, Elsevier, World Scientific, Taylor & Francis etc.

DETAILS OF PHD SUPERVISION:

Details	As a Sole Guide	As a Principal Guide (with a Co-guide)	As a Co-guide	Total
No. of PhD supervised	15	07	01	23
No. of PhD under Supervision	08	01	00	09

DETAILS of M.Phil. PROJECT SUPERVISION:

No. of M.Phil. Supervised/Awarded as: 02

DETAILS OF EXTERNALLY FUNDED SPONSORED RESEARCH PROJECTS:

S N	Project Title	Project No. of Funding Agency Dhanbad	Project No. of IIT(ISM) Dhanbad	Sanctioned Amount in INR	Received Amount in INR	Role (PI/ CO-PI)	No. of CO - PIs	Funding Agency	Duration/ Status
1	MATHEMATICAL STUDY ON WAVE PROPAGATION ASPECTS IN PIEZOELECTRIC COMPOSITE STRUCTURES WITH COMPLEXITIES	EMR/2016/03985, Dated March 15, 2017	DST(SERB)/(167)/2016-2017/510/A M	14,69,000	13,72,666	PI	0	DST SERB	3 Yrs/ Completed
2	STUDY OF WAVE PROPAGATION ASPECTS IN PIEZOELECTRIC, PIEZOMAGNETIC AND FUNCTIONALLY GRADED PIEZOELECTRIC COMPOSITE STRUCTURES	25(0265)/17/ EMR-II, Dated April 27, 2017	CSIR(25)/2017-2018/522/A M	16,33,002	16,33,002	PI	0	CSIR	3 Yrs/ Completed
3	MATHEMATICAL MODELLING OF ELASTIC WAVE PROPAGATION IN HIGHLY ANISOTROPIC AND HETEROGENEOUS MEDIA	2/48(3)/2016 /NBHM(R.P.)/R&D II/4528, Dated March 31, 2017	NBHM/2017 - 2018/528/A M	14,38,000	13,36,442	PI	1	NBHM	3 Yrs/ Completed
4	MATHEMATICAL STUDY ON THE ANALYSIS OF THERMOELASTIC DAMPING AND FREQUENCY SHIFT IN THERMOELASTIC MICRO/NANO-SCALE BEAMS WITH COMPLEXITIES	MTR/2021/00525, Dated Feb 14, 2022	DST(SERB)/(321)/2021-2022/873/M nC	6,60,000	4,40,000	PI	0	DST SERB	3 Yrs/Ongoing
5	MATHEMATICAL MODELLING OF SEISMIC WAVE PROPAGATION IN COMPOSITE LAYERED STRUCTURES	EMR/2017/000263, Dated August 08, 2017	DST(SERB)/(177)/2017-2018/532/A M	15,19,000	13,73,030	CO-PI	1	DST SERB	3 years/ Completed

DETAILS OF OUTREACH PROGRAMMES (EDPS/PDPS/MDPS/CONFERENCES/SEMINARS ORGANISED):

Sl no.	Title	Number Assigned to the Course	External Funding in INR	Funding Agency	Role (CI/Co-CI)	Duration	Status
1	MATHEMATICAL MODELLING OF ELASTODYNAMIC PROBLEMS	CONS/3594/2017-2018	1,88,884	Various Organization (Externally Funded)	CI- Myself	5 days (August 3-7, 2017)	Completed
2	RELIABILITY AND SAFETY ANALYSIS	CONS/3230/2016-17	2,06,421	Various Organization (Externally Funded)	Co-CI- Myself CI-Prof. Subhashis Chatterjee	5 days (June 20-24, 2016)	Completed
3	NATIONAL CONFERENCE ON WAVE MECHANICS AND VIBRATIONS	--	3,85,000	DST NEW DELHI and JHARKHAND DST	Organizing Secretary/ Co-CI- Myself Convener-Prof. Sanjeev Anand Sahu	3 days (December 21-23, 2015)	Completed
4	SEVEN DAYS ONLINE	EDP/7163/2023-24	70,800	Various	CI- Myself	7 days (16-22)	Completed

	WORKSHOP ON “BUILDING INTERNET SCALE APPLICATIONS”			Organization (Externally Funded)	Co-CI- Prof. Subhashis Chatterjee Co-CI- Prof. Saurabh Srivastava	December, 2023)	
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BOOK CHAPTERS:

S.No.	Title	Authors	Publisher	Year of Publication
1	APPLICATION OF POLYNOMIAL FUNCTIONS IN ANALYZING ANTI-PLANE WAVE PROFILES IN A FUNCTIONALLY GRADED PIEZOELECTRIC–VISCOELASTIC–POROELASTIC STRUCTURE WITH BUFFER LAYER	A. K. Singh & S. Singh	IOP Publishing Ltd	2022
2	MATHEMATICAL STUDY OF REFLECTION AND TRANSMISSION PHENOMENON OF PLANE WAVES AT THE INTERFACE OF TWO DISSIMILAR INITIALLY STRESSED ROTATING MICRO-MECHANICALLY MODELED PIEZOELECTRIC FIBER-REINFORCED COMPOSITE HALF-SPACES.	A. K. Singh & S. Guha	World Scientific	2022
3	PROPAGATION OF EDGE WAVE IN HOMOGENEOUS VISCOELASTIC SANDY MEDIA	P. Kumar, A. Chattopadhyay, A. K. Singh	Springer Link	2020
4	ANTI-PLANE SHEAR WAVE IN MICROSTRUCTURAL MEDIA: A CASE WISE STUDY OF MICROPOLARITY, IRREGULAR, AND NON-PERFECT INTERFACE	M. S. Chaki & A. K. Singh	IGI Global	2019
5	IMPACT OF RECTANGULAR/PARABOLIC SHAPED IRREGULARITY ON THE PROPAGATION OF SHEAR HORIZONTAL WAVE IN A SLIGHTLY COMPRESSIBLE LAYERED STRUCTURE	MS Chaki, S Guha, & AK Singh	Springer Link	2018

ADMINISTRATIVE TASKS:

1. Served as **ACTING DEAN (INFORMATION SYSTEMS)** for the duration May 27, 2021 to October 20, 2023.
2. Served as **HEAD AUTOMATION CENTRE** for the duration May 27, 2021 to October 20, 2023.
3. Served as **HEAD COMPUTER CENTRE** for the duration May 27, 2021 to October 20, 2023.
4. Served as **ASSOCIATE DEAN (AUTOMATION)** for the duration September 30, 2019 to June 21, 2021.
5. Served as **CHAIRMAN, DOCUMENTATION CELL, IIT(ISM), Dhanbad** for the duration December 10, 2018 to June 26, 2020.
6. Served as a **NODAL OFFICER, DOCUMENTATION CELL, IIT(ISM) Dhanbad** for the duration April 23, 2018 to December 09, 2018.
7. Served as **WARDEN, JASPER HOSTEL (D- BLOCK)** for 04 years (from 1st June 2014 to 31st May 2018).
8. Served as **JOINT SECRETARY ISMAA (INDIAN SCHOOL OF MINES ALUMNI ASSOCIATION).**
9. Served as a **MEMBER, MONITORING AND REVIEW CELL** in IIT(ISM), Dhanbad from August 24, 2018 to September 29, 2019.
10. Served as **DFSC (DEPARTMENT FACULTY SCRUTINY COMMITTEE)** from July 26, 2019 to Nov 30, 2020.
11. Served as **NODAL OFFICER** from IIT(ISM) Dhanbad for **NIRF-2019, NIRF-2020 and NIRF-2021.**
12. Served as a **CONVENER SRIJAN-2019**, the Socio-Cultural Festival of IIT(ISM) Dhanbad.
13. Served as a **CO-CONVENER BASANT-2019**, the Alumni Reunion of IIT (ISM) Dhanbad.
14. Served as a **CO-CONVENER SRIJAN-2018**, the Socio-Cultural Festival of IIT (ISM) Dhanbad.
15. Served as a **FACULTY-IN-CHARGE ATHLETICS**, Sports and Physical Education Centre, IIT(ISM), Dhanbad.

16. Presently serving as DFSC (Department Faculty Scrutiny Committee) from Jan 24, 2024 to till date.
17. Presently serving as a member of DGRC (Departmental Grievance Redressal Committee) from Feb 28, 2024 to till date.
18. Presently serving as a Vice-Chairperson (PG/PhD) CDC from July 01, 2024 to till date.

EXTRA CURRICULAR ACTIVITIES:

1. **BEST ATHLETE STAFF (MEN) AWARD** of IIT(ISM) Dhanbad in **three consecutive years** 2017-18, 2018-19 & 2019-20.
2. **FIRST POSITION holder in Hindi Essay Writing Competition** in Teachers and Officers category for two consecutive years organized during Hindi Pakhwada-2015 and Hindi Pakhwada-2016 at IIT(ISM) Dhanbad.
3. **SECOND POSITION holder in Hindi Essay Writing Competition** in Teachers and Officers category organized during Hindi Pakhwada 2017 at IIT(ISM) Dhanbad.

PUBLICATIONS:

International Journal

1. Kumari, R., **Singh, K. A.**, Kumar, S., & Guha, S. (2024). Transmission of Lamb wave in a micro-mechanically piezoelectric fiber-reinforced composite plate. *Wave Motion*, 103307. <https://doi.org/10.1016/j.wavemoti.2024.103307>
2. Singh, S. and **Singh, A.K.**, (2024). BG waves in a piezo–flexo-magnetic layered model with impedance boundary and imperfect interface. *Acta Mechanica*, pp.1-17.
3. Koley, S., **Singh, A.K.** and Negi, A., (2024). Scattering and reflection phenomena of SH-waves propagation through the surface irregularity in an orthotropic viscoelastic structure. *Acta Mechanica*, pp.1-16.
4. Mahanty, M., Kumar, P., **Singh, A.K.** and Chattopadhyay, A., (2024). Analytical study on transverse behaviour of Love-type waves in a corrugated cylindrical composite structure: A perturbation theory. *International Journal of Non-Linear Mechanics*, 160, p.104660.
5. Singh, S. and **Singh, A.K.**, (2024). Anti-plane waves in a liquid-loaded piezo-flexo-electric layered model with interface energy. *Mathematics and Mechanics of Solids*, p.10812865241239600.
6. **Singh, A.K.**, Singh, S. & Koley, S. (2023). Reflection of plane wave at an initially stressed rotating piezo-electro-magnetic-fiber-reinforced Composite half-space. *The European Physical Journal Plus* 138, 296. <https://doi.org/10.1140/epjp/s13360-023-03907-4>
7. Negi A., **Singh A. K.** & Koley S. (2023). On the Scattering of Love Waves in a Layered Transversely Isotropic Irregular Poro-viscoelastic Composite Rock Structure, *Journal of Earthquake Engineering*, 27:7, 1900-1919, DOI: 10.1080/13632469.2022.2089406
8. A. Srivastava, **Singh A. K.** & Chattopadhyay A. (2023). Reflection and transmission of three-dimensional plane wave at an imperfectly bonded interface between two distinct rotating functionally graded triclinic media, *Waves in Random and Complex Media*. DOI: 10.1080/17455030.2023.2203271.
9. **Singh A. K.**, Singh A. K., Guha S. & Kumar D. (2023). Mathematical analysis on the propagation of Griffith crack in an initially stressed strip subjected to punch pressure, *Mechanics Based Design of Structures and Machines*, DOI:10.1080/15397734.2023.2223614
10. Guha S. & **Singh A. K.** (2022). Frequency shifts and thermoelastic damping in distinct Micro-/Nano-scale piezothermoelastic fiber-reinforced composite beams under three heat conduction models, *Journal of Ocean Engineering and Science*, ISSN 2468-0133, DOI: <https://doi.org/10.1016/j.joes.2022.06.015>
11. **Singh, A. K.**, Kumari, R., & Dharmender. (2022). Green's function analysis of mass loading sensitivity on the shear wave propagation induced by a point source in piezo-electro-magnetic structure. *Mechanics Based Design of Structures and Machines*, 50(10), 3511-3532
12. Kumari, R., & **Singh, A. K.** (2022). Dispersion and attenuation of shear wave in couple stress stratum due to point source. *Journal of Vibration and Control*, 28(13-14), 1754-1768.
13. Singh, S., **Singh, A. K.**, & Guha, S. (2022). Reflection of plane waves at the stress-free/rigid surface of a micro-mechanically modelled Piezo-Electro-Magnetic Fiber-Reinforced half-space. *Waves in Random and Complex Media*, 1-30.

14. Singh, A. K., & Singh, A. K. (2022). Dynamic stress concentration of a smooth moving punch influenced by a shear wave in an initially stressed dry sandy layer. *Acta Mechanica*, 1-12.
15. Singh, A. K., & Singh, A. K. (2022). Analysis on the propagation of crack in a functionally graded orthotropic strip under pre-stress. *Waves in Random and Complex Media*, 1-19.
16. Singh, A. K., Rajput, P., Guha, S., & Singh, S. (2022). Propagation characteristics of love-type wave at the electro-mechanical imperfect interface of a piezoelectric fiber-reinforced composite layer overlying a piezoelectric half-space. *European Journal of Mechanics-A/Solids*, 104527.
17. Guha, S. & Singh, A. K. (2022). Influence of varying fiber volume fractions on plane waves reflecting from the stress-free/rigid surface of a piezoelectric fiber-reinforced composite half-space. *Mechanics of Advanced Materials and Structures*, 29(27), 5758–5772.
18. Pal, M. K., Singh, A. K., & Kumari, R. (2022). Reflection of plane waves on the stress-free and rigid boundary surfaces of pre-stressed piezoelectric-orthotropic substrate: A comparative approach. *Mechanics of Advanced Materials and Structures*, 29(6), 816–827.
19. Singh, A. K., Rajput, P., & Chaki, M. S. (2022). Analytical study of Love wave propagation in functionally graded piezo-poroelastic media with electroded boundary and abruptly thickened imperfect interface. *Waves in Random and Complex Media*, 32(1), 463–487.
20. Srivastava, A., Chattopadhyay, A., & Singh, A. K. (2022). Influence of doubly loaded elastic void pores and distinct inhomogeneity in the sandwiched layered composite structure. *Waves in Random and Complex Media*, 32(1), 233–250.
21. Guha, S., Singh, A. K. & Das, A. (2021). Analysis on different types of imperfect interfaces between two dissimilar piezothermoelastic half-spaces on reflection and refraction phenomenon of plane waves, *Waves in Random and Complex Media*, 31(4), 660-689.
22. Saha, S., Singh, A. K., & Chaki, M. S. (2021). Analysis of generated shear wave due to stress discontinuity in a monoclinic layered structure. *Waves in Random and Complex Media*, 1-29.
23. Singh, A. K., Mahto, S., & Guha, S. (2021). Analysis of plane wave reflection and transmission phenomenon at the interface of two distinct micro-mechanically modeled rotating initially stressed piezomagnetic fiber-reinforced half-spaces, *Mechanics of Advanced Materials and Structures* 29(28), 7623–7639.
24. Singh, S., Singh, A. K., & Guha, S. (2021). Shear waves in a Piezo-Fiber-Reinforced-Poroelastic composite structure with sandwiched Functionally Graded Buffer Layer: Power Series approach. *European Journal of Mechanics-A/Solids*, 104470.
25. Singh, A. K., Mahto, S., & Guha, S. (2021). Analysis of plane wave reflection phenomenon from the surface of a micro-mechanically modeled piezomagnetic fiber-reinforced composite half-space. *Waves in Random and Complex Media*, 1-22.
26. Singh, A. K., Koley, S., & Chaki, M. S. (2021). Generation and Propagation of SH Waves Due to Shearing Stress Discontinuity in Linear Orthotropic Viscoelastic Layered Structure. *International Journal of Applied and Computational Mathematics*, 7(6), 1-23.
27. Singh, A. K., Ray, A., & Kumari, R. (2021). A new dispersive wave with Love-type waves in a microstructure due to an impulsive point source. *Waves in Random and Complex Media*, 1-23.
28. Chaki, M. S., & Singh, A. K. (2021). Scattering and propagation characteristics of SH wave in reduced Cosserat isotropic layered structure at irregular boundaries. *Mathematical Methods in the Applied Sciences*, 44(7), 6143-6163.
29. Singh, A. K., Kaur, T., Saha, S., Kumar, S., & Chattopadhyay, A. (2021). Study on propagation characteristics of SH-wave in an imperfectly bonded functionally graded structure with viscoelastic stratum and fibre-reinforced substrate. *Arabian Journal of Geosciences*, 14(14), 1-15.
30. Ray, A., & Singh, A. K. (2021). Impact of imperfect corrugated interface in piezoelectric-piezomagnetic composites on reflection and refraction of plane waves. *The Journal of the Acoustical Society of America*, 150(1), 573-591.
31. Singh, P., Singh, A. K., & Chattopadhyay, A. (2021). Reflection of three-dimensional plane waves at the free surface of a rotating triclinic half-space under the context of generalized thermoelasticity. *Applied Mathematics and Mechanics*, 42(9), 1363-1378.
32. Singh, P., Chattopadhyay, A., & Singh, A. K. (2021). Propagation of Love-type wave in functionally graded pre-stressed magneto-visco-elastic fiber-reinforced composite structure. *Waves in Random and Complex Media*, 31(5), 942-971.
33. Kumar, P., Mahanty, M., Singh, A. K., & Chattopadhyay, A. (2021). Analytical study on shear wave propagation in anisotropic dry sandy spherical layered structure. *Applied Mathematical Modelling*.
34. Pal, M. K., & Singh, A. K. (2021). Analysis of reflection and transmission phenomenon at distinct bonding interfaces in a rotating pre-stressed functionally graded piezoelectric-orthotropic structure. *Applied Mathematics and Computation*, 409, 126398.

35. Mahanty, M., Kumar, P., **Singh, A. K.**, & Chattopadhyay, A. (2021). Green's function analysis of shear wave propagation in heterogeneous poroelastic sandwiched layer influenced by an impulsive source. *Wave Motion*, 107, 102821.
36. Singh, P., **Singh, A. K.**, & Chattopadhyay, A. (2021). Influence of distinct type of imperfect interfaces on reflection and transmission phenomena of triclinic thermoelastic structure. *Journal of Thermal Stresses*, 44(9), 1096-1120.
37. **Singh, A. K.**, & Kumari, R. (2021). Scattering of plane SH waves on an irregular piezomagnetic stratum-substrate structure. *Applied Mathematical Modelling*, 100, 240-262.
38. Singh, S., **Singh, A. K.**, & Guha, S. (2021). Impact of interfacial imperfections on the reflection and transmission phenomenon of plane waves in a Porous-Piezoelectric model. *Applied Mathematical Modelling*, 100, 656-675.
39. Guha, S., & **Singh, A. K.** (2021). Frequency shifts and thermoelastic damping in different types of Nano-/Micro-scale beams with sandiness and voids under three thermoelasticity theories. *Journal of Sound and Vibration*, 116301.
40. Guha, S., & **Singh, A. K.** (2021). Plane wave reflection/transmission in imperfectly bonded initially stressed rotating piezothermoelastic fiber-reinforced composite half-spaces. *European Journal of Mechanics-A/Solids*, 104242.
41. Pal, M. K., & **Singh, A. K.** (2021). On the characteristics of reflected waves in Rotating Functionally graded initially stressed piezoelectric-orthotropic half-space. *Waves in Random and Complex Media*, 33(4), 899-913.
42. Singh, S., **Singh, A.K.** (2021) Anti-plane surface and interfacial waves influenced by layer reinforcement in Piezo-Electro-Magnetic structures with surface energy. *The European Physical Journal Plus*, 136(3), 1-20.
43. Kumari, R., **Singh, A. K.**, & Ray, A. (2021). Love-type wave in low-velocity piezoelectric-viscoelastic stratum with mass loading. *Acta Mechanica*, 232(4), 1253-1271.
44. Mahanty, M., Kumar, P., **Singh, A. K.**, & Chattopadhyay, A. (2021). Analysis on the propagation of Griffith crack in a magnetoelastic self-reinforced strip subjected to moving punch of constant load. *Archive of Applied Mechanics*, 91, 791-808.
45. Kumar, P., **Singh, A. K.**, & Chattopadhyay, A. (2021). Influence of an impulsive source on shear wave propagation in a mounted porous layer over a foundation with dry sandy elastic stratum and functionally graded substrate under initial stress. *Soil Dynamics and Earthquake Engineering*, 142, 106536.
46. Kumar, P., Mahanty, M., **Singh, A. K.**, & Chattopadhyay, A. (2021). Analytical study on stress intensity factor due to the propagation of Griffith crack in a crystalline monoclinic layer subjected to punch pressure. *Fatigue & Fracture of Engineering Materials & Structures*, 44(2), 475-487.
47. Ray, A., & **Singh, A. K.** (2021). Electromechanical coupling and mass loading sensitivity of SH waves in a dielectrically imperfect piezoelectric structure. *International Journal of Solids and Structures*, 210, 49-65.
48. Singh, P., **Singh, A. K.**, & Chattopadhyay, A. (2021). Reflection and transmission of thermoelastic waves at the corrugated interface of crystalline structure. *Journal of Thermal Stresses*, 44(4), 469-512.
49. Saha, S., **Singh, A. K.**, & Chattopadhyay, A. (2021). Impact of curved boundary on the propagation characteristics of Rayleigh-type wave and SH-wave in a prestressed monoclinic media. *Mechanics of Advanced Materials and Structures*, 28(12), 1274-1287.
50. **Singh, A. K.**, Agarwalla, S., Chaki, M. S., & Chattopadhyay, A. (2021). Shear wave propagation in a slightly compressible finitely deformed layer over a foundation with pre-stressed fibre-reinforced stratum and dry sandy viscoelastic substrate. *Waves in Random and Complex Media*, 31(5), 847-866.
51. **Singh, A. K.**, Singh, A. K., & Yadav, R. P. (2020). Stress Intensity Factor of Dynamic Crack in Double-Layered Dry Sandy Elastic Medium due to Shear Wave under Different Loading Conditions. *International Journal of Geomechanics*, 20(11), 04020215.
52. Singh, P., **Singh, A. K.**, Chattopadhyay, A., & Guha, S. (2020). Mathematical study on the reflection and refraction phenomena of three-dimensional plane waves in a structure with floating frozen layer. *Applied Mathematics and Computation*, 386, 125488.
53. Guha, S., & **Singh, A. K.** (2020). Effects of Initial Stresses on reflection phenomenon of plane waves at the free surface of a Rotating Piezothermoelastic Fiber-Reinforced Composite half-space. *International Journal of Mechanical Sciences*, 105766.
54. **Singh, A.K.**, Singh, S., Kumari, R. Ray, A. (2020). Impact of point source and mass loading sensitivity on the propagation of an SH wave in an imperfectly bonded FGPPM layered structure. *Acta Mechanica* 231, 2603-2627.
55. Chaki, M. S., & **Singh, A. K.** (2020). The impact of reinforcement and piezoelectricity on SH wave propagation in irregular imperfectly-bonded layered FGPM structures: An analytical approach. *European Journal of Mechanics-A/Solids*, 80, 103872.
56. Ray, A., & **Singh, A. K.** (2020). Love-type waves in couple-stress stratum imperfectly bonded to an irregular viscous substrate. *Acta Mechanica*, 231(1), 101-123.
57. Negi, A., **Singh, A. K.**, & Yadav, R. P. (2020). Analysis on dynamic interfacial crack impacted by SH-wave in bi-material poroelastic strip. *Composite Structures*, 233, 111639.

58. Mahanty, M., Kumar, P., **Singh, A. K.**, & Chattopadhyay, A. (2020). On the characteristics of shear acoustic waves propagating in an imperfectly bonded functionally graded piezoelectric layer over a piezoelectric cylinder. *Journal of Engineering Mathematics*, 120(1), 67-88.
59. Mahanty, M., Kumar, P., **Singh, A. K.**, & Chattopadhyay, A. (2020). Dynamic response of an irregular heterogeneous anisotropic poroelastic composite structure due to normal moving load. *Acta Mechanica*, 231, 2303-2321.
60. P. Kumar, M. Mahanty, A. Chattopadhyay, **A.K. Singh**, (2020). Green's function technique to study the influence of heterogeneity on SH-wave propagation due to a line source in composite layered structure, *Journal of Vibration and Control*, 26(9-10), 701-712.
61. Srivastava, A., Chattopadhyay, A., & **Singh, A. K.** (2020). Analysis of reflection and transmission of three dimensional plane wave in an intermediate fluid layer embedded between two viscoelastic anisotropic semi-infinite media. *International Journal of Mechanical Sciences*, 170, 105007.
62. Negi, A., & **Singh, A. K.** (2019). Analysis on scattering characteristics of Love-type wave due to surface irregularity in a piezoelectric structure. *The Journal of the Acoustical Society of America*, 145(6), 3756-3783.
63. **Singh, A. K.**, Negi, A., & Koley, S. (2019). Influence of surface irregularity on dynamic response induced due to a moving load on functionally graded piezoelectric material substrate. *Smart Structures and Systems*, 23(1), 31-44.
64. Saha, S. **Singh, A. K.** & Chattopadhyay, A. (2019). On propagation behavior of SH-wave and Rayleigh-type wave in an initially stressed exponentially graded fiber-reinforced viscoelastic layered structure, *Waves in Random and Complex Media*, 31(3), 486-514.
65. Srivastava, A., Chattopadhyay, A. & **Singh, A. K.** (2019). Impact of inhomogeneous fiber-reinforced layer with frictional interface on Rayleigh-type wave propagation, *Journal of Engineering Mathematics*, 2019, 114, 159-176.
66. Ray, A., **Singh, A. K.**, & Kumari, R. (2019). Green's function technique to model Love-type wave propagation due to an impulsive point source in a piezomagnetic layered structure. *Mechanics of Advanced Materials and Structures*, 28(7), 709-720.
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