


Bio-Data

PROF. DEVRAJ SINGH

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| Permanent Address: 104, Home Green Apartments Bamnoli, Dwarka Sector-28 New Delhi-110077 | Correspondence Address: Flat No. B1, Type IV Sangam Teachers Colony, VBS Purvanchal University Jaunpur-222003, U.P., India Cell No.:+91-9810549461 E-mail: devraj2001@gmail.com |  |
| Date and place of Birth: 30/06/1974, Etawah, U.P., India. | | |
| Martial Status: Married | | |

Education Qualifications:

| Exam. Passed | Board / University | Year | Subjects | %age |
|-----------------------------|------------------------------------|------|---|---------------------------|
| High- School | U.P.Board, Allahabad | 1989 | Hindi, English, Mathematics-2, Science-2, Social.Science, . Biology | 74.3 |
| Inter- mediate | U.P.Board, Allahabad | 1991 | Gen. Hindi, English, Physics ,Chemistry, Mathematics | 64.2 |
| B.Sc. | Kanpur University | 1995 | Physics, Chemistry, Mathematics & General English | 66.1 |
| M.Sc. | C.S.J.M.Univ., Kanpur | 1999 | Physics with Electronics specialisation | 63.9 |
| D.Phil. | University of Allahabad, Allahabad | 2002 | Title: “Study of ultrasonic attenuation in condensed materials” under supervision of Prof. Raja Ram Yadav, Physics Department., A.U. Barcode:5010010155128 | Thesis adjudged Excellent |
| A.N.S.I. (Sugar Technology) | National Sugar Institute, Kanpur | 1998 | Sugar Technology, Sugar Chemistry, Sugar Engg., Instrumentation, Management Awareness etc. | 68.46 |

Experience:

10. Teaching Experience:

- Department of Physics
Iswar Saran Degree College
(University of Allahabad)
Allahabad-211004, India
Lecturer
21st September, 2002-31st May, 2007
- Department of Applied Sciences (PHYSICS)
Amity School of Engineering and Technology,
Bijwasan, New Delhi-110 061, India
Lecturer
1st June, 2007-28th Dec., 2010
- Department of Applied Sciences (PHYSICS)
Amity Institute of Applied Sciences
Amity University Uttar Pradesh,
Noida-201313, India
Assistant Professor-III
1st August, 2018-31st December, 2019
- U.P.Rajarshi Tandon Open University,
Allahabad, India
Counsellor of B.Sc. Physics
December, 2003 –May, 2007
- Department of Applied Sciences (PHYSICS)
Amity School of Engineering and Technology
Bijwasan, New Delhi-110 061, India
Assistant Professor-III
28th Dec, 2010-31st July, 2018
- Department of Physics
Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, VBS Purvanchal University, Jaunpur-222003
Professor
1st January, 2020-

- (b) **Research Experience:** • Ultrasonics Group, Dept. of Physics
University of Allahabad, Allahabad, India
Research Fellow
December, 1999- September, 2002

(c) Technical Experience:

- Experimental Sugar Factory (National Sugar Institute), Kanpur, India
Crushing season 1996-1997, Capacity of plant=100TCD
Student of A.N.S.I. (Sugar Technology) 1st year
Work: Preliminary all experimental knowledge about process of manufacturing of cane sugar
- The Saraswati Sugar Mills, Yamuna Nagar (Haryana), India
Crushing season 1997-1998, Capacity of plant=10000TCD
Student Chemist
Work: Supervision of all process of cane sugar manufacturing and to collect all informations of the sugar plant.

Interested in Research Fields:

- Ultrasonics
- Acoustics
- Materials Science
- Lattice Dynamics
- Nondestructive Evaluations

Courses taught:

- Mechanics (B.Sc.) • Optics (B.Sc.)
- Physics of Semiconductor Devices (M.Sc.)
- Microwaves (M.Sc.)
- Thermal Physics (B.Sc.)
- Quantum Mechanics (B.Sc.)
- Applied Physics (B.Tech.)

References:

- Prof. Raja Ram Yadav, Former VC-VBSPU
Ex. Head of Department of Physics
University of Allahabad, Prayagraj, India
E-mail: rryadav1@rediffmail.com

Tel. No.: +91-9415347913

- Dr. Sanjay Yadav, Ex.-Senior Principal Scientist and Head
Pressure, Vacuum and Ultrasonic Metrology Section
& Professor-AcSIR, Faculty of Physical Sciences
CSIR-National Physical Laboratory (CSIR-NPL)
New Delhi – 110 012, India
E-mail: ysanjay62@gmail.com, Tel : +91-11-4709 1206

- Prof. Dr. V. Rajendran
Vice-Chancellor
AMET University,
East Coast Road,
Kanathur 603112, Tamil Nadu, India
E-mail: veerajendran@gmail.com
- Dr. Nico F. Declercq Professor
Woodruff School of Mechanical Engineering
Georgia Institute of Technology
Atlanta, GA 30332, USA
E-mail: nico.declercq@me.gatech.edu
Tel. No.: +33(0)38720-3924

Publications: Papers in Journals: **109**, Papers in conference proceedings: **09**; Books: **24**, Book chapter: **02**,

D.Sc. Advice:

| Advising | | | | |
|----------|-----------------------|--|---|----------------------------------|
| S. No. | Name of D.Sc. student | Enrolment No. and University | Topic of the thesis | Role as supervisor/Co-supervisor |
| 1. | Dr. Mukesh Kumar Zope | PU22/260036 Veer Bahadur Singh Purvanchal University, Jaunpur | STUDY OF PHYSICAL AND DOSIMETRIC ASPECTS OF INTENSITY MODULATED AND RAPID ARC RADIATION DELIVERY IN HEAD AND NECK CANCER: A PROSPECTIVE STUDY | Advisor |

Ph.D Guidance:

| S. No. | Name of Ph.D. student | Enrolment No. and University | Topic of the thesis | Role as supervisor/Co-supervisor | Year of award |
|----------------|----------------------------|---|---|----------------------------------|---------------|
| GUIDED: | | | | | |
| 1. | Dr. Raj Kumar | NIMSUR/Dir./Ph.D./ 2009/9124 NIMS University, Jaipur | ULTRASONIC STUDY OF SMART MATERIALS FOR ENGINEERING APPLICATIONS | Co-supervisor | 2015 |
| 2. | Dr. (Mrs.) Shivani Kaushik | NIMSUR/Dir./Ph.D./ 2009/9117 NIMS University, Jaipur | ULTRASONIC NON-DESTRUCTIVE TESTING CHARACTERISATION OF CONDENSED MATERIALS | Co-supervisor | 2016 |
| 3. | Dr. (Mrs.) Vyoma Bhalla | a4431413005 Amity University Uttar-Pradesh, NOIDA | INVESTIGATION OF ULTRASONIC AND THERMOPHYSICAL PROPERTIES FOR SOME ADVANCED MATERIALS | Supervisor | 2017 |
| 4. | Dr. Amit Kumar | AS1631416001 | ULTRASONIC AND THERMOPHYSICAL | Co-supervisor | 2019 |

| | | | | | |
|----------------|----------------------------------|--|---|---------------|------|
| | | Amity University Haryana, Manesar | PROPERTIES OF CONDENSED MATERIALS | | |
| 5. | Dr. (Mrs.) Chinmayee Tripathi | 14-PHY-001 The Ravenshaw University, Cuttack, Odisha | STUDY OF MECHANICAL AND THERMAL PROPERTIES OF fcc STRUCTURED MATERIALS USING ULTRASONICS | Co-supervisor | 2019 |
| 6. | Dr. (Mrs.) Jyoti Bala | 00316490416 Guru Gobind Singh Indraprastha University, Dwarka Sector 16C, New Delhi | INVESTIGATION OF PROPERTIES OF ADVANCED MATERIALS FOR POTENTIAL APPLICATIONS | Supervisor | 2022 |
| 7. | Dr. (Mrs.) Bhawan Jyoti | 00116496416 Guru Gobind Singh Indraprastha University, Dwarka Sector 16C, New Delhi | ELASTIC, ULTRASONIC AND THERMOPHYSICAL PROPERTIES OF CONDENSED MATERIALS | Supervisor | 2022 |
| GUIDING | | | | | |
| 8. | Mr. Anurag Singh | PU20/4440 Veer Bahadur Singh Purvanchal University, Jaunpur | MECHANICAL AND THERMOPHYSICAL PROPERTIES OF ADVANCED MATERIALS FOR INDUSTRIAL APPLICATIONS | Supervisor | |
| 9. | Ms. Jyotsana Chauhan | PU16/091850 Veer Bahadur Singh Purvanchal University, Jaunpur | STUDY OF ULTRASONIC, MECHANICAL AND THERMAL PROPERTIES OF SOLID MATERIALS AND NANOFUIDS | Supervisor | |
| 10. | Mr. Praveen Singh | PU22/286002 Veer Bahadur Singh Purvanchal University, Jaunpur | ULTRASONIC AND THERMOPHYSICAL INVESTIGATIONS ON CONDENSED MATERIALS | Supervisor | |
| 11. | Mr. Abhishek Pathak | PU22/286004 Veer Bahadur Singh Purvanchal University, Jaunpur | ULTRASONIC EVALUATIONS OF MATERIALS FOR ENGINEERING APPLICATIONS | Supervisor | |
| 12. | Mr. Neeraj Kumar Singh | PU/ Veer Bahadur Singh Purvanchal University, Jaunpur | STUDY OF ACOUSTICAL AND THERMOPHYSICAL PROPERTIES OF MATERIALS | Supervisor | |
| 13. | Mr. Rakesh Kumar | PU/ Veer Bahadur Singh Purvanchal University, Jaunpur | ULTRASONIC TECHNIQUE AS A TOOL FOR MATERIALS CHARACTERIZATION | Supervisor | |

Research Project:

- Centre of Excellence, U.P. State Higher Education Board, Lucknow on the "Design & Development of perovskite Solar Cells on Biodegradable Paper Substrates" [Rs. 475000/- for the session 2022-2023]

Scholarships:

- National Integrated Scholarship- during High School
- National Scholarship-U.P.Govt.-during Intermediate
- U.P.Chhatra Kalyan Nidhi- during D.Phil.

Extra Curricular Activities:

- Head, Physics Department, Iswar Saran Degree College, Allahabad from July 1, 2003 to May 31, 2007.
- Convener, A Seminar on Latest Trends in Computer Technology (LATCOT-2004) at Iswar Saran Degree College, Allahabad on January 11, 2004.
- Assistant Dean Student Welfare, Iswar Saran Degree College, Allahabad from December 1, 2004 to May 31, 2007.
- Member, Organizing committee, National Symposium on Ultrasonics (NSU-XV) at Physics Department, University of Allahabad, Allahabad during 1-3 Nov., 2006.
- Member, Organizing committee, National Seminar on Latest Developments in Computer Technology (4-5 February, 2007) at Iswar Saran Degree College of University of Allahabad, Allahabad.
- Member, B.Sc. Admission committee during sessions 2003-2004, 2004-2005 and 2005-2006 at Iswar Saran Degree College of University of Allahabad, Allahabad.
- Head, Applied Physics Department, Amity School of Engineering & Technology, Bijwasan, New Delhi since March, 2009.

- Member, Organizing committee, National Symposium on Ultrasonics (NSU-XIX) at National Physical Laboratory, New Delhi during 30-31 October., 2012.
- Faculty Advisor, Indian Society for Technical Education- ASET chapter from 2008-2012.
- Scientific Memberships:
 - Life Fellow of Ultrasonics Society of India (LF-104).
 - Life Fellow of Acoustical Society of India (LM-826)
 - Life Member of India Association of Physics Teachers (LM-9777, L7008).
 - Life Member of Materials Research Society of India (LM-1251B).
 - Life Member of Ultrasonics Society of India (LM-168).
 - Life Member of Metrology Society of India (LM-976).
 - Life Member of Indian Physics Association (DEL/LM/13248).
 - Life Member of Ion Beam Society of India (LM249)
- Journal Referee–
 - Indian Journal of Pure & Applied Physics
 - Journal of Pure & Applied Ultrasonics
 - Results in Physics (Elsevier)
 - Platinum Metals Review (Now Johnson Matthey Technical Review)
 - International Journal of Applied Mechanics (World Scientific)
 - MAPAN-Journal of Metrology Society of India (Springer)
 - Advanced Materials Letters
 - African Journal of Pure and Applied Chemistry
 - Research Journal of Earth and Planetary Sciences
 - Walailak Journal of Science and Technology
 - Applied Acoustics (Elsevier).
 - Arabian Journal of Chemistry (Elsevier)
 - Journal of Physics and Chemistry of Solids (Elsevier)
 - Optoelectronics and Advanced Materials
 - Journal of Molecular Liquids
 - Journal of Analytical Science and Technology
 - Journal of Acoustical Society of India
 - Sensors and Actuators A: Physical (Elsevier)
 - Particulate Science and Technology: An International Journal (Taylor & Francis)
 - Ceramics International (Elsevier)
 - RSC Advances
 - Experimental Thermal and Fluid Science (Elsevier)
 - Journal of Physical Science
 - Zeitschrift für Physikalische Chemie
 - Physica B: Condensed Matter (Elsevier)
 - Materials Science & Engineering B (Elsevier)
 - Journal of Physical Science
 - Journal of Magnetism and Magnetic Materials (Elsevier)
 - Nano-Micro Letters (Elsevier)
 - Zeitschrift für Naturforschung A – A Journal of Physical Sciences
 - Indian Journal of Chemistry, Section A
 - Journal of the Electrochemical Society
 - Indian Journal of Engineering and Materials Science
 - Materials Today (Elsevier)
 - Egyptian Journal of Petroleum
 - Indian Journal of Chemistry: Section A (IJCA)
 - Materials Today: Proceedings
 - Phase Transition
 - Molecular Symposia
 - Journal of Scientific and Industrial Research (JSIR)
 - Indian Journal of Engineering & Materials Science (IJEMS)
- **Editor in**
 - Johnson Matthey Technology Review

Journal of the Acoustical Society of India
 Journal of Pure & Applied Ultrasonics
 ISST Journal of Applied Physics

- **Associate Editor: MAPAN**-Journal of Metrology Society of India (Springer)
- Publication Secretary: Executive Council of **Ultrasonics Society of India(2012-2022)**
- Member: Regional Council (RC1: Delhi & Haryana) of **Indian Association of Physics Teachers: (2012-2019)**
- Treasurer: Regional Council (RC1: Delhi & Haryana) of **Indian Association of Physics Teachers: (2019)**
- Convener, National Seminar on Materials Characterization by Ultrasonics, **NSMCU-2012** at Amity School of Engineering & Technology, Bijwasan, New Delhi on 3-4 April, 2012.
- Recognized supervisor at Guru Gobind Singh Indraprastha University, New Delhi.
- Recognized supervisor at Amity University, Noida.
- Member: Organising Committee, The 2nd Conference on New Advances in Acoustics (NAA 2016), February 28 to March 1, 2016 in Beijing, China
- Jury Member: National Level Exhibition and Project Competition (NLEPC) under INSPIRE Awards component of Department of Science & Technology, Govt. of India
- Member: Organising Committee, International Conference on Engineering Physics, Materials and Ultrasonics (ICEPMU) , on 3-4 June 2016 at The Northcap University (NCU), Gurgaon,
- Session organizer in 13th Western Pacific Acoustics Conference (WESPAC-2018) on 11-15 November, 2018 at the CSIR-National Physical Laboratory, New Delhi
- Session chair, SPIN – 2019: 6th International Conference on Signal Processing and Integrated Networks on 7th and 8th March, 2019 at ASET, Amity University, Noida.
- Co-Chairman, ICUMSAT-2019, VBSP University, Jaunpur
- **Director**, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, India since 13th January, 2020.


 (Dr. Devraj Singh)

List of Publications of Dr. Devraj Singh

A. Papers in Referred Journals

| S.No | Authors | Year | Title | Complete reference of journal |
|------|---|------|--|---|
| 1. | R.R.Yadav and Devraj Singh | 2000 | Temperature dependence of ultrasonic absorption in lanthanum monochalcogenides | Journal of the Acoustical Society of India Vol. 28, No.1-4,pp.191-198 |
| 2. | R.R.Yadav and Devraj Singh | 2001 | Behaviour of ultrasonic attenuation in intermetallics https://doi.org/10.1016/S0966-9795(00)00089-3 | Intermetallics (Elsevier) Vol.9. No.3, pp.189-194 (IF=3.398)=SCOPUS |
| 3. | R.R.Yadav and Devraj Singh | 2001 | Ultrasonic attenuation in lanthanum monochalcogenides DOI: 10.1143/JPSJ.70.1825 | Journal of the Physical Society of Japan. Vol.70, No.6, pp.1825- 1832 (IF=1.579)=SCOPUS |
| 4. | S.K.Kor, G.Pandey and Devraj Singh | 2001 | Ultrasonic attenuation in semimetallic GdX single crystal (X=P,As,Sb and Bi) in the | Indian Journal of Pure & Applied Physics Vol.39, No. 8, pp.510-513 |

| | | | | |
|-----|--|------|--|--|
| | | | temperature range 10 to 300K. | (IF=0.653)=SCOPUS |
| 5. | R.R.Yadav and Devraj Singh | 2001 | Absorption at low temperatures | Journal of the Acoustical Society of India Vol. 29, No.1-2, pp.220-224 |
| 6. | Devraj Singh , R.R.Yadav and A.K.Tiwari | 2002 | Ultrasonic attenuation in semiconductors | Indian Journal of Pure & Applied Physics Vol.40,No.12, pp.845-849 (IF=0.653)=SCOPUS |
| 7. | R.R.Yadav, Devraj Singh and A.K. Tiwari | 2002 | Ultrasonic evaluations in rare-earth metals | Journal of the Acoustical Society of India Vol. 30, No.1-2, pp.59 – 63 |
| 8. | S.K.Kor,R.R.Yadav and Devraj Singh | 2003 | Ultrasonic studies of CTAB in glycol https://doi.org/10.1080/10587250216176 | Molecular Crystals and Liquid Crystals (Taylor & Francis) Vol.392, pp 75-81 (IF= 0.512)=SCOPUS |
| 9. | S.K.Kor, G.Pandey and Devraj Singh | 2003 | Ultrasonic attenuation in lanthanum monochalcogenides from 5K to 500K | Acta Acustica united with Acustica Vol.89, pp.105-109 (IF= 1.037)=SCOPUS |
| 10. | R.R.Yadav and Devraj Singh | 2003 | Effect of thermal conductivity on ultrasonic attenuation in praseodymium monochalcogenides https://doi.org/10.1134/1.1608987 | Acoustical Physics (Moscow) Vol.49,No.5, pp 595-604 (IF= 0.782)=SCOPUS |
| 11. | Devraj Singh and R. R. Yadav | 2003 | The thermal conductivity and ultrasonic absorption in dielectric crystals | Journal of Pure & Applied Ultrasonics Vol.25,No.3, pp. 82-87; UGC |
| 12. | R.R.Yadav, A.K. Tiwari and Devraj Singh | 2003 | How the ultrasonic parameters of Ce-monopnictides are so sensitive to pressure | Journal of the Acoustical Society of India Vol. 31,No.1-4, pp.317-319 |
| 13. | S.K.Kor, Devraj Singh and A.K. Srivastava | 2004 | Ultrasonic attenuation in PrS, PrSe and PrTe | Journal of the Acoustical Society of India Vol. 32, No.1-2, pp.238-242 |
| 14. | Devraj Singh and R.R.Yadav | 2004 | Ultrasonic properties of SmS | Journal of the Acoustical Society of India Vol. 32, No.1-2, pp.279-281 |
| 15. | R.R.Yadav, P.Awasthi and Devraj Singh | 2004 | Ultrasonic attenuation in Fe ₃ O ₄ | Journal of the Acoustical Society of India Vol. 32, No.1-2, pp.282-286 |
| 16. | Devraj Singh , R.R.Yadav and A.K.Gupta | 2004 | Acoustical attenuation in scandium antimonide | Journal of the Acoustical Society of India Vol. 32, No.1-2, pp.252-254 |
| 17. | S.K.Kor, Devraj Singh and A.K.Srivastava | 2005 | Ultrasonic studies of thulium monochalcogenides | Indian Journal of Pure & Applied Physics Vol.43,No.5, pp.355-358 (IF=0.653)=SCOPUS |
| 18. | R.R.Yadav, A.K.Gupta and Devraj Singh | 2005 | Ultrasonic attenuation in Ni-Pd alloys at high temperature phase 2005JPhSt...9..227Y | Journal of Physical Studies Vol.9,No.3, pp.227-232 (IF=0.390)=SCOPUS |
| 19. | R.R.Yadav, A.K.Tiwari and Devraj Singh | 2005 | Effect of pressure on ultrasonic attenuation in Ce-monopnictides at low temperature https://doi.org/10.1007/s10853-005-4397-y | Journal of Materials Science Vol.40,No.19, pp.5319-5321 (IF= 3.553)=SCOPUS |
| 20. | R.R.Yadav, P.Awasthi and Devraj Singh | 2005 | Akhieser damping in refractory compounds | Journal of the Acoustical Society of India Vol. 33, |

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|-----|--|------|--|---|
| | | | | No. 1-4. Pp. 177-181 |
| 21. | D.K.Pandey, Devraj Singh and R.R. Yadav | 2007 | Ultrasonic wave propagation in IIIrd group nitrides https://doi.org/10.1016/j.apacoust.2006.04.004 | Applied Acoustics (Elsevier) Vol. 68, No.7, pp.766-777 (IF=2.440)=SCOPUS |
| 22. | D.K.Pandey, Devraj Singh , P.K.Yadawa and R. R. Yadav | 2007 | Ultrasonic velocity and absorption in lyotropic liquid crystal systems | Macromolecule-An Indian Journal Vol. 3, No.3, pp.75-78 |
| 23. | D.K.Pandey, Devraj Singh , R. R. Yadav and P.K.Yadawa | 2007 | Ultrasonic studies of CTAB/decanol/water systems | Macromolecule-An Indian Journal Vol. 3, No.3, pp.79-82 |
| 24. | Devraj Singh and D.K.Pandey | 2008 | Acoustic investigations on intermetallics | Materials Science-An Indian Journal Vol. 4, No.2, pp.67-71 |
| 25. | A.K.Yadav, R.R.Yadav, D.K.Pandey and Devraj Singh | 2008 | Ultrasonic study of fission products precipitated in the nuclear fuel doi:10.1016/j.matlet.2008.02.036 | Materials Letters (Elsevier) Vol.62, pp.3258-3261 (IF=3.204)=SCOPUS |
| 26. | Devraj Singh , D.K.Pandey, P.K.Yadawa and A.K.Yadav | 2009 | Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures https://doi.org/10.1016/j.cryogenics.2008.08.008 | Cryogenics (Elsevier) Vol. 49, No.1, pp. 12-16 (IF=1.818)=SCOPUS |
| 27. | Devraj Singh and D.K.Pandey | 2009 | Ultrasonic investigations in intermetallics https://doi.org/10.1007/s12043-009-0034-7 | Pramana-journal of Physics (Springer) Vol. 72, No.2, pp. 389-398 (IF=1.688)=SCOPUS |
| 28. | Devraj Singh , D.K.Pandey and P.K.Yadawa | 2009 | Ultrasonic wave propagation in rare-earth monochalcogenides DOI: 10.2478/s11534-008-0130-1 | Central European Journal of Physics (Springer/Versita) Vol.7, pp. 198-205 (IF=0.963)=SCOPUS |
| 29. | D.K.Pandey, Devraj Singh and P.K.Yadawa | 2009 | Ultrasonic study of osmium and ruthenium DOI: 10.1595/147106709X430927 | Platinum Metals Review Vol. 53, pp. 91-97 (IF=2.704) SCOPUS |
| 30. | Devraj Singh | 2009 | Behaviour of acoustic attenuation in rare-earth chalcogenides doi:10.1016/j.matchemphys.2008.11.025 | Materials Chemistry & Physics (Elsevier) Vol. 115, No. 1, 15 May 2009, Pages 65-68 (IF=3.408)=SCOPUS |
| 31. | P.K.Yadawa, Devraj Singh , D.K.Pandey and R.R.Yadav | 2009 | Elastic and acoustic properties of heavy rare-earth metals DOI: 10.2174/1874837600902010061 | The Open Acoustic Journal , Vol. 2, pp.61-67 |
| 32. | Devraj Singh and P.K.Yadawa | 2010 | Effect of platinum addition to coinage metals on their ultrasonic properties doi:10.1595/147106710X500602 | Platinum Metals Review Vol. 52, pp.172-179 (IF=2.704:SCOPUS) |
| 33. | Devraj Singh , P.K.Yadawa & S.K.Sahu | 2010 | Effect of electrical resistivity on ultrasonic attenuation in NpTe doi:10.1016/j.cryogenics.2010.04.005 | Cryogenics (Elsevier) Vol. 50, pp.476-479 (IF=1.818)=SCOPUS |
| 34. | P.K.Yadawa, D.K.Pandey, Devraj Singh , R.R.Yadav & G.Mishra | 2010 | Computations of ultrasonic parameters of lanthanide metals Ti, Zr and Hf doi:10.3906/fiz-0902-7 | Turkish Journal of Physics Vol.34, pp. 23-31 (IF=0.146)=SCOPUS |
| 35. | Devraj Singh , | 2011 | Propagation of ultrasonic waves in | Applied Acoustics |

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|-----|---|------|---|---|
| | D.K.Pandey, D.K.Singh and R.R.Yadav | | neptunium monochalcogenides doi:10.1016/j.apacoust.2011.04.002 | (Elsevier) Vol. 72, pp. 737-741 (IF=2.440)=SCOPUS |
| 36. | G.Mishra, S.K.Verma, Devraj Singh , P.K. Yadawa and R.R. Yadav | 2011 | Synthesis and ultrasonic characterization of Cu/PVP nanoparticles-polymer suspension doi:10.4236/oja.2011 | Open Journal of Acoustics (Scientific Research, USA) Vol.1, pp.9-14 |
| 37. | P.K.Yadawa, Devraj Singh , D.K. Pandey, G. Mishra and R.R. Yadav | 2011 | Acoustic wave propagation in nanocrystalline RuCo alloys DOI:10.4236/ampc.2011.12003 | Advances in Materials Physics and Chemistry Vol.1, pp.14-19 |
| 38. | Devraj Singh , Raj Kumar and D.K. Pandey | 2011 | Temperature and orientation dependence of ultrasonic parameters in americium monopnictides DOI:10.4236/ampc.2011.12006 | Advances in Materials Physics and Chemistry Vol.1, pp. 31-38 |
| 39. | J.Kumar, Kailash, S.K.Shrivastava, Devraj Singh and V.Kumar | 2011 | Ultrasonic attenuation in calcium oxide DOI:10.4236/ampc.2011.12008 | Advances in Materials Physics and Chemistry Vol.1, pp.44-49 |
| 40. | Devraj Singh , S.Tripathi, D.K.Pandey, A.K.Gupta, D.K. Singh and J.Kumar | 2011 | Ultrasonic wave propagation in semimetallic single crystals DOI: 10.1142/S0217984911027686 | Modern Physics Letters B (World Scientific) Vol. 25, No. 31, pp.2377-2390 (IF=1.224: SCOPUS) |
| 41. | A.K.Gupta, A.Gupta, Devraj Singh and S.Tripathi | 2011 | Sensitivity of nanostructured iron metal on ultrasonic properties DOI:10.4236/ojmetal.2011.12005 | Open Journal of Metal , Vol. 1, No.1, pp. 34-40 |
| 42. | R. Kumar, Devraj Singh and G. Mishra | 2011 | Ultrasonic wave propagation in californium monopnictides DOI: 10.4236/ojapps.2011.11001 | Open Journal of Applied Sciences Vol. 1, No.1, pp. 1-7 |
| 43. | D.K.Singh, D.K.Pandey, R.R.Yadav and Devraj Singh | 2012 | A study of nanosized zinc oxide and its nanofluids DOI: 10.1007/s12043-012-0275-8 | Pramana- journal of physics (Springer) Vol. 78, No. 5, pp. 759–766 (IF=1.688)=SCOPUS |
| 44. | D.K.Singh, D.K.Pandey, R.R.Yadav and Devraj Singh | 2012 | Characterization of CrO ₂ - poly- vinyl pyrrolidone magnetic nanofluids DOI:10.1016/j.jmmm.2012.05.020 | Journal of Magnetism and Magnetic Materials (Elsevier) Vol. 324, No. 22, pp. 3662-3667 (IF=2.717)=SCOPUS |
| 45. | R. Kumar, Devraj Singh and S. Tripathi | 2012 | Crystal anharmonicity in strontium monochalcogenides | Asian Journal of Chemistry Vol. 24, No. 12, pp. 5652–5654 (IF=0.270)=SCOPUS |
| 46. | S. Kaushik, Devraj Singh and G. Mishra | 2012 | Elastic and ultrasonic studies Xbi (X: B, Cm and U) | Asian Journal of Chemistry Vol. 24, No. 12, pp. 5655–5658 (IF=0.270)=SCOPUS |
| 47. | D.K. Singh, D.K. Pandey, R.R. Yadav and Devraj Singh | 2013 | A study of ZnO nanoparticles and ZnO-EG nanofluids DOI:10.1080/17458080.2011.602369 | Journal of Experimental Nanoscience Vol. 8, No. 5, pp. 731–741 (IF=2.169)=SCOPUS |
| 48. | G. Mishra, Devraj Singh , P. K. Yadawa, S. K. Verma, R. R. Yadav | 2013 | Study of copper/palladium nanoclusters using acoustic particle sizer DOI:10.1595/147106713X667632 | Platinum Metals Review Vol.57, No. 3, pp. 186–191 (IF=2.704:SCOPUS) |

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| 96. | S. P. Singh, A. K. Verma, A. K. Jaiswal, Devraj Singh and R. R. Yadav | 2021 | Study of ultrasonic and thermal properties for heat transfer enhancement in Fe ₂ O ₃ nanoparticles- ethylene glycol nanofluids https://doi.org/10.1007/s10765-021-02809-w | International Journal of Thermophysics (Springer) , Vol. 42, Art. No. 60 (9 pp.) (I.F.=0.794) SCOPUS |
| 97. | S. Tripathi, R. Agarwal, Devraj Singh | 2021 | Elastic mechanical and ultrasonic properties of nanostructured IIIrd group phosphides https://doi.org/10.1007/s12647-020-00412-2 | Mapan: Journal of Metrology Society of India Vol. 36, No.1 , pp. 97-107, (IF=1.033)=SCOPUS |
| 98. | S. Tripathi, R. Agarwal, R. Vashisth, Devraj Singh | 2021 | Capacitive micromachined ultrasonic transducers: Transmission evaluation with different membrane materials and dimensions https://doi.org/10.1515/teme-2020-0073 | tm – Technisches Messen (De Gruyter) , Vol. 84 , No. 4, pp. 251-258 (I.F.=0.580) SCOPUS |
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| 101. | M.Gupta, Devraj Singh , S.P.Singh, A.Mathur, S.Wadhwa, A.K.Jaiswal, D.K.Singh and R.R.Yadav | 2021 | Ultrasonic and thermophysical studies of ethylene glycol nanofluids containing TiO ₂ nanoparticles and their heat transfer enhancements 10.1595/205651320X15940360546454 | Johnson Matthey Technology Review Vol. 65, No. 3, pp. 418 -430, (IF=2.349)=SCOPUS |
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| 104. | A.K. Tiwari, G. Mishra, P.K. Dhawan, Devraj Singh | 2021 | Ultrasonic characterization of intermetallic compounds | Journal of Pure and Applied Ultrasonics , Vol. 67 , No. 6 , pp. 584-589, |
| 105. | J. Bala, S. P. Singh, A. K. Verma, D.K. Singh, Devraj Singh | 2022 | Elastic, mechanical and ultrasonic studies of boron monpnictides in two different Structural Phases 10.1007/s12648-021-02278-9 | Indian Journal of Physics , Vol. 96, No. 11, pp. 3191-3200 (IF= 1.407)=SCOPUS |
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| 107. | G. Singh, S. P. Singh, Devraj Singh , A. K. Verma, D.K.Pandey, and R. R. Yadav | 2022 | Elastic, mechanical, thermophysical, ultrasonic properties of divalent metal fluorides XF ₂ (X = Ca, Sr, Cd, and Ba) 10.1007/s12043-022-02318-x | Pramana-Journal of Physics , Vol. 96, No. 2, pp. 97 (IF=1.688)=SCOPUS |
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| 109. | A.K. Maddheshiya, S.P. Singh, Devraj Singh , R. R. Yadav and P.S. Yadav | 2023 | Nonlinear thermophysical behaviour of transition metal titanium | Johnson Matthey Technology Review Vol. , No. , pp. -, (IF=2.349)=SCOPUS (Accepted for publication) |

B. Book chapters

| S.No | Author(s) | Year | Title of the chapter | Name of the book and | Publisher |
|------|--|------|--|--|-----------------------------|
| 1. | S. Tripathi, R. Agarwal, R. Vashisth and Devraj Singh | 2020 | Diameter dependent ultrasonic investigation of SiC nanowires | Innovative Applications of Nanowires for Circuit Design | IGI Global, Hershey PA, USA |
| 2. | V. Bhalla and Devraj Singh | 2022 | Mechanical and thermo-physical properties of rare-earth materials https://doi.org/10.1007/978-981-19-1550-5_40-1 | Handbook of Metrology and Applications: Section 5: Industrial Metrology: Opportunities and Challenges (D. K. Aswal, S. Yadav, T. Takatsuji P. Rachakonda, H. Kumar (eds) | Springer, Singapore |

C. Papers published in conference proceedings

| S.No | Author(s) | Year | Title of the Paper | Name and place of conference |
|------|---|------|--|--|
| 1. | R.R.Yadav and Devraj Singh | 2000 | Ultrasonic characterization in intermetallics | 15 th World Conference on Nondestructive Testing, Roma, 15-21 October |
| 2. | Devraj Singh and R.R.Yadav | 2006 | Ultrasonic studies of terbium chalcogenides | 15 th National Symposium on Ultrasonics, University of Allahabad, 1-3 Nov. |
| 3. | P.K.Yadawa, Devraj Singh , and S.K.Sahu | 2009 | Ultrasonic properties of hexagonal nanocrystalline ZnO and BeO | Eighteenth National Symposium on Ultrasonics (NSU-XVIII), VIT University, Vellore, Dec. 21-23, pp. 189-194 |
| 4. | Devraj Singh , P.K.Yadawa, R.S.Singh and S.K.Sahu | 2010 | Ultrasonic wave propagation in refractory materials, pp.182-188 | National Symposium on Acoustics (NSA-2010), Govt. College, Rishikesh, 12-14 Dec. (www.nsa2010.gpgcrishikesh.com) |
| 5. | P.K.Yadawa and Devraj Singh | 2010 | Ultrasonic wave propagation in II-IV hexagonal semiconductor compounds, pp.189-200 | National Symposium on Acoustics (NSA-2010), Govt. College, Rishikesh, 12-14 Dec. (www.nsa2010.gpgcrishikesh.com) |
| 6. | P.K.Yadawa and Devraj Singh | 2010 | Ultrasonic behavior of velocities and higher order elastic constants in Zener alloys, p.112 | The 20 th International Congress on Acoustics (ICA-2010), Sydney, Australia, Aug. 23-27 (www.acoustics.asn.au/conference_proceedings/ICA_2010/cdrom.../p112.pdf) |
| 7. | C. Tripathy, Devraj Singh , R. Paikaray | 2015 | Temperature Dependent Elastic and Ultrasonic Properties of Superhard Metal and its Carbide and Nitride: Os, OsC, and OsN | Proceedings of International Symposium on Ultrasonics (ISU-2015) at RTM Nagpur University, Nagpur during 22-24 January, 2015 |
| 8. | V. Bhalla, Devraj Singh , A. Mathur, Meher Wan, P.K. Dhawan, A.K. Jaiswal and R.R. Yadav | 2016 | Experimental investigation on the thermal conductivity and ultrasonic velocity of propylene glycol based TiO ₂ nanofluids | 19 th World Conference on Nondestructive Testing, Internationales Congress Center München Messegelände – 81823 Munich – Germany , 13-17 June |
| 9. | S. Tripathi, R. Agarwal, R.Vashisth and Devraj Singh | 2020 | Deflection analysis of capacitive micromachined ultrasonic transducer with InP nanowires | IEEE Xplore: 2020 7th International Conference on Signal Processing and Integrated Networks (SPIN), Amity University, Noida: 27-28 Feb. 2020, , pp. 355-358, Published: 20 April 2020 |

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D. Attended symposium, but not presented paper

| S.No | Year | Name of Sympoium | Place |
|------|------|--|------------------------------------|
| 1. | 2000 | The National Academy of Sciences, India; 70 th Annual Session (3 to 6 November) | University of Allahabad, Allahabad |

E.Papers presented in symposia

| S.No | Year | Title | Name of Symposium | Place |
|------|------|---|--|--|
| 1. | 2001 | Ultrasonic attenuation in gadolinium monopnictides | National Symposium on Acoustics, 18-20 October | Vellore Institute of Technology, Vellore (TN) |
| 2. | 2002 | Acoustical investigations on plutonium monochalcogenides | National Symposium on Acoustics, 22-24 October | Aligarh Muslim University, Aligarh (U.P.) |
| 3. | 2002 | Effect of composition on ultrasonic attenuation in metallic alloys at room temperature | National Symposium on Acoustics, 22-24 October | Aligarh Muslim University, Aligarh (U.P.) |
| 4. | 2002 | Ultrasonic evaluation in rare-earth metals | National Symposium on Acoustics, 22-24 October | Aligarh Muslim University, Aligarh (U.P.) |
| 5. | 2002 | Application of Morse Potential to the ultrasonic attenuation in BCC metals | National Seminar on NDE, 5-7 December | Hotel Taj Connemara, Chennai |
| 6. | 2003 | Acoustical properties of rare-earth monochalcogenides | National Symposium on Acoustics, 30 October-1 November | The Automotive Research Association of India, Pune |
| 7. | 2003 | Low temperature study of metallic alloys | National Symposium on Ultrasonics, 3-5 November | Guru Nanak Dev University, Amritsar (Pb.) |
| 8. | 2004 | Ultrasonic characterization of thulium monochalcogenides in the temperature range 100 to 300K | The National Academy of Sciences, India; 74 th Annual Session, 2 to 4 December | University of Rajasthan, Jaipur+ BISR, Jaipur (RJ) |
| 9. | 2004 | Acoustic attenuation in scandium antimonides | The National Academy of Sciences, India; 74 th Annual Session, 2 to 4 December | University of Rajasthan, Jaipur+ BISR, Jaipur(RJ) |
| 10. | 2004 | Ultrasonic wave propagation in some B2-structured intermetallics | 7 th conference of International Academy of Physical Sciences (CONIAPS-VII), 21-23 December | University of Allahabad, Allahabad |
| 11. | 2005 | Ultrasonic attenuation studies in some BCC structured intermetallics | National Symposium on Acoustics , 14—16 December | National Aerospace Laboratory, Bangalore |
| 12. | 2005 | Acoustic wave propagation in chalcogenides of Tm | National Symposium on Acoustics (14—16 December) | National Aerospace Laboratory, Bangalore |
| 13. | 2005 | Akhieser damping in refractory compounds | National Symposium on Acoustics(14—16December) | National Aerospace Laboratory, Bangalore |
| 14. | 2005 | Low temperature ultrasonic study of metallic alloys | National Symposium on Acoustics (14—16 December) | National Aerospace Laboratory, Bangalore |
| 15. | 2006 | Ultrasonic studies of terbium chalcogenides | National Symposium on Ultrasonics, 1-3 November | University of Allahabad, Allahabad |
| 16. | 2007 | A computer program for Evaluation of Nonlinear Nondestructive Testing Properties of Lanthanum Monochalcogenides | National Seminar on Latest Developments in Computer Technology (4-5 February) | Iswar Saran Degree College of University of Allahabad , Allahabad |
| 17. | 2007 | Attenuation of ultrasonic waves in V, Nb and Ta at low temperatures | National Conference on Scientific Application of Mathematics (NACSAM-2007) (26-27 Dec.2007) | V.S.Mehta College of Science, Bharwari, Kausambhi, U.P. |

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| 18. | 2010 | Synthesis and ultrasonic characterization of ZnO nanofluid | National Conference on Nanotechnology for Sustainable Development (NANO, 2010) (Dec. 9-10, 2010) | Kulbhaskar Ashram PG College, Allahabad |
| 19. | 2011 | Crystal Anharmonicity in Strontium Monochalcogenides | National Conference on "Emerging Trends of Research in Materials Science" (Nov. 12-13, 2011) | Swami Keshvanand Institute of Technology, Management and Gramothan+ University of Jaipur |
| 20. | 2011 | Ultrasonic Study of Rare Earth Materials for Engineering Applications (Invited) | National Symposium on Acoustics (NSA-2011) Nov. 17-19, 2011 | Bundelkhand University, Jhansi |
| 21. | 2011 | How the ultrasonic parameters are so sensitive to magnetic fields in case of CeAs | National Conference on "Recent Trends in Synthesis and Applications of Advanced Materials" Dec. 5-6, 2011 | Maharaja Agrasen Institute of Technology, Sector 22, Rohini , New Delhi |
| 22. | 2012 | Elastic and Ultrasonic Properties of Xbi (X: B, Cm and U) | International Conference on Global Trends in Pure & Applied Chemical Sciences, 3-4 March, 12 | Hotel Inder Residency, Udaipur , Rajasthan |
| 23. | 2012 | Ultrasonic wave propagation in bifluorides XF ₂ (X: Ca, Sr, Cd and Ba) | National Symposium on Ultrasonics (30-31 October) | National Physical Laboratory, New Delhi |
| 24. | 2013 | Crucial role of NDT in present scenario | Annual Convention of IAPT, 15 April, 2013 | RC-1 of IAPT at Bal Bhawan , New Delhi |
| 25. | 2013 | Sensitivity of ultrasonic properties to the magnetic, electrical and thermal parameters | International conference on Recent Trend & Devices (ICRTMD-2013) , 30-31 October, 2013 | Amity Institute of Applied Sciences, Amity University Uttar-Pradesh, Noida |
| 26. | 2014 | Materials Characterization by Ultrasonics (Invited) | UGC Sponsored National Conference on Materials Characterization and Their Applications, 6 th Feb., 2014 | Anand Niketan College, Anandwan -Warora, Chandrapur (Maharashtra) |
| 27. | 2014 | Mechanical and thermal properties of rare-earth monoarsenides: An ultrasonic study | 21 st National Conference on Liquid Crystals; 10-12 November | V.S.S.D College, CSJM University, Kanpur , U.P. |
| 28. | 2014 | Temperature dependent elastic and ultrasonic properties of silver halides (Invited) | UGC Sponsored National Conference on Future Perspectives of Science & Technology in Society and Governance (FPSTSG-2014) 29-30 November, 2014 | SSV College, Hapur , U.P. |
| 29. | 2014 | Tap Mapan kee Upyogita (Importance of Temperature Measurement) (Invited) | Rashtriya Sangoshthi: Mapiki-2014 8-9 December, 2014 | National Physical Laboratory, New Delhi |
| 30. | 2015 | Role of Ultrasonic NDE for the characterisation of materials at different physical conditions (Invited) | International Symposium on Ultrasonics (ISU-2015) 22-24 January, 2015 | RTM Nagpur University, Nagpur |
| 31. | 2015 | Mechanical and thermal properties of single crystalline materials (Invited) | National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) February 16, 2015 | Arts, Commerce & Science College, Maregaon (Road), Yavatmal , Maharashtra |
| 32. | 2015 | Effect of different physical conditions on materials' ultrasonic NDE for the advanced applications | National Seminar on Recent Advances in Physical Sciences February 28, 2015 | Udai Pratap (Autonomous) College, Varanasi |

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| 33. | 2015 | Ultrasonic non-destructive testing characterization of rare-earth materials (Invited) | National Conference on Recent Advances in Materials & Field Theory (NCRAMFT-2K15) December 28-29, 2015 | Bhagwan Parshuram Institute of Technology, Rohini, Delhi |
| 34. | 2016 | Role of Mechanical and Thermophysical Properties for Rare-earth Materials (Invited) | National Conference on Role of Science and Technology in Socio-economic Development, Feb. 28-29, 2016 | Dr. B. R. Ambedkar Govt. Degree College, Mainpuri , U.P. |
| 35. | 2017 | Behaviour of mechanical and ultrasonic properties of rare-earth materials (Invited) | National Conference on Recent Advances in Materials Science and Nano-Technology (RAMST-2017) on 21 April 2017 | Amity University, Manesar, Gurgaon |
| 36. | 2017 | Elastic, ultrasonic and thermophysical properties of materials for advanced applications (Invited) | National Symposium on Advances in Ultrasonics and Materials Research 8 th to 10 th November 2017 | Central University Himanchal Pradesh, Dharamshala |
| 37. | 2018 | Advanced Materials: Mechanical and Thermophysical Properties (Invited) | National Seminar on Environmental Hazards and Their Management 8 th December, 2018 | Gramarishi Pt. Ram Kumar Pandey Gramodaya Ashram P.G. College, Beersinghpur, Saya, Ambedkar Nagar , U.P. |
| 38. | 2019 | Ultrasonic studies of the nonlinear behavior of solid materials: a brief review (Invited) | Internal Conference of Ultrasonics and Materials Science for Advanced Applications 16 th to 18 th November 2019 | VBS Purvanchal University, Jaunpur , U.P. |
| 39. | 2020 | Theoretical Investigations of Engineering Materials for their Potential Applications (Invited) | International Conference on Advances in Physical, Chemical & Mathematical Sciences 13-16 February, 2020 | Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur |
| 40. | 2020 | Perspectives and Prospectives of Ultrasonics (Invited) | e-Lecture series on Recent Advances in Sciences & Technology (April 20, 2020 –May 3, 2020) on 20/04/2020 | Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study & Research, VBS Purvanchal University, Jaunpur |
| 41. | 2021 | Role of Ultrasound for Materials Characterisation (Invited) | International e- Conference on Recent Advances in Material Science and Nanotechnology (RAMAN-2021) during February 7-9, 2021 on 09/02/2021 | Art, Commerce and Science College, Maregaon Road, Yavatmal, Maharashtra |
| 42. | 2021 | Mechanical and Thermophysical Properties of Advanced Materials (Invited) | Virtual Online Meeting on the National Symposium on Acoustics (NSA 2020-21) during 22 - 23 March 2021 on 23 rd March, 2021 | CSIR-National Physical Laboratory, Dr. K. S. Krishnan Road, New Delhi 110012, India |
| 43. | 2022 | Elastic, Mechanical and Thermal Properties of Rare-Earth Materials by Ultrasonic Analysis (Invited) | International e- Conference on Recent Advances in Material Science and Nanotechnology (RAMAN-2022) during May 12-14, 2022 on 14/05/2022 | G.S. Tompe Arts, Commerce & Science College, Chandur Bazar, Amravati, Maharashtra |
| 44. | 2023 | Mechanical, thermo-physical and ultrasonic properties of condensed materials (Invited) | Virtual Online Meeting on International Faculty Development Programme on Advanced Functional Materials: Energy, Environment & Sustainable Development during 28-02-2023 - 09-03-2023 on 06-03-2023 | Department of Physics, SRM TRP Engineering College, Tiruchirapalli in Association with Science Club. |

F. Submitted Papers in Referred Journals

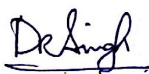
| S.No. | Authors | Year | Title | Complete reference of journal |
|-------|--|------|--|------------------------------------|
| 1. | A. Kumar, S. P. Singh, Devraj Singh , A. Singh and R.K.Thakur | 2023 | Ultrasonic wave propagation in PuPn (Pn=N,P,As,Sb and Bi) | Physical Mesomechanics |
| 2. | A. K. Maddheshiya, S.P. Singh, Devraj Singh , R. Yadav, P. S. Yadav | 2023 | Mechanical, elastic and microstructural investigation of hcp phase high entropy alloya | MAPAN (Springer) |
| 3. | A. K.Maddheshiya, N. Yadav, S.P. Singh, Devraj Singh , P. S. Yadav, R. R. Yadav | 2023 | Impact of partial replacement of Sc with Al on mechanical and elastic investigation of hcp structured high-entropy alloys $Hf_{0.25}Ti_{0.25}Zr_{0.25}Sc_{0.25-x}Al_x$ ($x \leq 15\%$) | Metals and Materials International |
| 4. | S. P. Singh, Devraj Singh , A. Kumar, Vyoma Bhalla and R.K.Thakur | 2023 | Elastic and ultrasonic characterization of europium monopnictides | Pramana –Journal of Physics |
| 5. | C. Tripathy, S. P. Singh, Devraj Singh and R. Paikaray | 2023 | Mechanical and thermophysical properties of CoN and NiN | Applied Acoustics (Elsevier) |
| 6. | | | | |

G. Published Books

| S.No. | Authors | Year | Title | Name of the publisher |
|-------|---|------|--|--|
| 1. | Devraj Singh | 2022 | Engineering Physics Vol.I-5th Edn. (For GGSIP University, Delhi) ISBN: 9788177000191 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | | 1. Introduction to Thermodynamics, 2. Waves and Oscillations, 3. Introduction to Electromagnetic Theory, 4. Interference of Light Waves, 5. Diffraction of Light waves, 6. Polarisation of Light Waves, 7. The Special Theory of Relativity, 8. Lasers Fundamentals, 9. Experiments | |
| 2. | Devraj Singh | 2022 | Engineering Physics, Vol.II-6th Edn (For GGSIP University, Delhi) ISBN: 9788177000207 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | | 1. Wave-Particle Duality, Matter Waves & Uncertainty Principle, 2. Modern Quantum Mechanics, 3. Statistical Mechanics, 4. Crystal Structure, 5. Crystal Planes, X-Rays Diffraction and Defects in Solids, 6. Band Theory of Solids and 7. Experiments | |
| 3. | Devraj Singh | 2011 | Fundamentals of Engineering Physics, Vol-I-2nd Edn (For Haryana) | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | | 1. Interference of Light waves, 2. Diffraction of Light waves, 3. Polarization of Light waves, 4. Laser Fundamentals, 5. Fibre Optics, 6. Electromagnetic Theory, 7. Dielectric Materials, 8. The Special Theory of Relativity, 9. Nuclear Physics, 10.. Superconductivity | |
| 4. | Devraj Singh | 2012 | Fundamentals of Engineering Physics, Vol-II-3rd edn. (For Haryana) ISBN: 9788177000566 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | | 1. Crystal Physics, 2. Quantum Mechanics, 3. Free Electron Theory of Metals, 4. Band Theory of Solids, 5. Photoconductivity and Photovoltaics, 6. Magnetic Properties of Solid Materials, 7. Superconductivity, 8. Nanoscience and Nanotechnology, 9. Thermal Physics, 10. Semiconducting Materials and 11. Experiments. | |
| 5. | Devraj Singh , R. B. Gautam, A. K. Shukla & P. K. Mishra | 2014 | Applied Physics (For Amity University)- Second Edition ISBN: 9789380386881 | University Science Press (An imprint of Laxmi Publications Pvt. Ltd.) New Delhi (www.laxmipublications.com) |
| | Contents→ | | 1. Physics of Vibrations, 2. Progressive Waves, 3. Ultrasonics, 4. Interference of Light, 5. Diffraction of Light, 6. Polarization of Light, 7. Vector Analysis, 8. Electromagnetism, 9. Special Theory of Relativity, 10. Wave Mechanics, 11. Atomic Physics, 12. Solid State Physics and 13. Experiments | |
| 6. | Devraj Singh | 2015 | Fundamentals of Optics-Second Edition Print Book ISBN : 9788120351462 eBook ISBN : 9789354435799 | PHI Learning Pvt. Ltd. , Delhi (www.phindia.com) |
| | Contents→ | | 1. Fermat's Principle, 2. Geometrical Optics, 3. Dispersion of Light, 4. Lens Aberration, 5. Optical Instruments, 6. Fundamentals of Vibrations, 7. Wave Motion, 8. Interference of Light Waves, 9. Diffraction of Light waves, 10. Polarization of Light Wave, 11. Electromagnetic Waves | |
| 7. | Devraj Singh | 2012 | Principles of Engineering Physics, Vol.-I-2nd Edition (For Rajasthan Technical University) ISBN: 9788177000306 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | | 1. Interference of Light Waves, 2. Polarization of Light waves, 3. Diffraction of Light Waves, 4. The Elements of Materials Science, 5. The Special Theory of Relativity, 6. Experiments | |

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| 8. | Devraj Singh | 2016 | Introductory Engineering Physics, 2nd Edition (For Punjab Technical University) ISBN: 9788177000351 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | 1. EM Waves and Dielectrics, 2. Magnetic Materials and Superconductivity, 3. Elements of Crystallography, 4. Laser Fundamentals, 5. Fibre Optics, 6. The Special Theory of Relativity, 7. Quantum Theory, 8. Nanophysics 9. Experiments | | |
| 9. | Devraj Singh | 2013 | Principles of Engineering Physics, Vol.-II-Second Edition (For Rajasthan Technical University) ISBN: 9788177000467 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | 1. Quantum Mechanics, 2. Applications of Schrödinger's Wave Equation, 3. Free Electron Theory of Solids, 4. Coherence, 5. Fibre Optics, 6. Lasers Fundamentals, 7. Holography, 8. Nuclear Radiation Detectors, 9. Experiments | | |
| 10. | V. K. Singh, Devraj Singh and D. P. Singh | 2013 | Mechanics and Wave Motion--- for B.Sc.I 1 st Edition (For U.P. State Universities) ISBN : 9789389520316 | I.K. International Pvt. Ltd. , Delhi (www.ikbooks.com) |
| | Contents→ | 1. Dynamics of Translational Motion, 2. Non-inertial Frames of Reference, 3. Dynamics of Rotational Motion, 4. Motion in Central Forces, 5. Mechanics of Non-Rigid Body-Elasticity, 6. Simple Harmonic Motion, 7. Damped Harmonic Motion, 8. Forced Harmonic Motion, 9. Wave Motion | | |
| 11. | Devraj Singh, J. Kumar and S. Tripathi | 2014 | Circuit Fundamentals and Basic Electronics----- for B.Sc.I 1 st Edition (For U.P. State Universities) ISBN : 9789389520583 | I.K. International Pvt. Ltd. , Delhi (www.ikbooks.com) |
| | Contents→ | 1. Varying Currents, 2. A.C, Bridges, 3. Electrical Networks, 4. Semiconductors and PN Junction Diode, 5. Rectifiers, Filters and Power Supplies, 6. Bipolar Junction Transistor, 7. Transistor Biasing and Circuits, 8. Amplifiers, 9. Multistage Transistor Amplifiers, 10. Oscillators, 11. Modulation and Demodulation, 12. Measuring Instruments, 13. Field Effect Transistor, 14. Digital Electronics and 15. Miscellaneous Topics | | |
| 12. | R.R. Yadav, Devraj Singh, S.P. Singh and D.K. Pandey | 2014 | Modern Physics for Scientists and Engineers (A Textbook for Undergraduate Students) Print Book ISBN : 9788120348585 eBook ISBN : 9789354438042 | PHI Learning Pvt. Ltd. , Delhi (www.phindia.com) |
| | Contents→ | 1. The Special Theory of Relativity, 2. Quantum Mechanics-I, 3. Quantum Mechanics-II, 4. Atomic Physics, 5. Molecular Physics, 6. Nuclear Physics, 7. Solid State Physics, 8. Superconductivity, 9. X-Rays, 10. Lasers, 11. Optical Fibers, 12. Motion of Charged Particles in E.M. Fields | | |
| 13. | B.P. Singh and Devraj Singh | 2013 | Building Science: Lighting and Acoustics (for B.Arch.) ISBN: 9788177000450 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | Part A: Lighting: 1. Basic Concepts of Lighting, 2. Daylighting, 3. Integrating Daylighting, 4. Lighting Sources, 5. Vocabulary of Artificial Lighting and Lighting Calculations, 6. Luminaires, 7. Light Design for Various Places in Buildings. Part B: Acoustics: 1. Acoustical Concepts, 2. Sound Absorption, 3. Noise Control, 4. Reverberation Sound, 5. Acoustical Design of Enclosed Spaces, 6. Interior Design and Sound Amplification System | | |
| 14. | Devraj Singh | 2014 | Integrated Engineering Physics 1 st Edition (For Gujarat Technological University) | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | 1. Dielectrics, 2. Magnetic Materials, 3. Acoustics, 4. Ultrasonics, 5. Superconductivity, 6. Lasers, 7. Fiber Optics, 8. Nanophysics, 9. Advanced Engineering Materials and 10. Experiments | | |
| 15. | S. Tripathi, S. K. Pandey and Devraj Singh | 2018 | Electronic Devices-2nd Edition (For GGSIP University) ISBN: 9788177001099 | Dhanpat Rai & Co. Pvt. Ltd. , New Delhi |
| | Contents→ | 1. Physical Properties of Elements, 2. Theory of Semiconductors, 3. Semiconductor Diodes, 4. Special Diodes, 5. Bipolar Junction Transistors and Field Effect Transistors, 6. Fundamentals of Digital Electronics, 7. Boolean Algebra and Minimization Techniques, 8. Experiments | | |
| 16. | Devraj Singh and S. K. Pandey | 2015 | Numerical Problems in Physics, Vol.-I ISBN: 978-81-8487-447-1 | ALPHA SCIENCE INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd. , New Delhi |
| | Contents→ | 1. Optics, 2. Waves and Oscillations, 3. Electromagnetic Field Theory, 4. Solid State Physics and 5. Modern Physics | | |
| 17. | S. K. Pandey and Devraj Singh | 2016 | Numerical Problems in Physics, Vol.-II ISBN: 978-81-8487-450-1 | ALPHA SCIENCE INTERNATIONAL LIMITED, Oxford, U.K./ Narosa |

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| | | | | Publishing House Pvt. Ltd., New Delhi |
| | Contents→ | 1. Mechanics, 2. Thermal Physics, 3. Circuit Fundamentals, 4. Electronics and 5. Spectroscopy | | |
| 18. | Devraj Singh, G. Mishra and R. R. Yadav | 2016 | Thermal Physics: Kinetic Theory and Thermodynamics ISBN: 978-81-8487-457-0 | ALPHA SCIENCE INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi |
| | Contents→ | 1. Kinetic Theory of Gases: Ideal Gas, 2. Real Gases, 3. The Laws of Thermodynamics – I, 4. The Laws of Thermodynamics – II, 5. Thermodynamic Relations and Their Applications, 6. Liquefaction of Gases, 7. Mean Free Path and Transport Phenomena, 8. Conduction of Heat and 9. Radiation | | |
| 19. | Devraj Singh | 2015 | Applied Optics Print Book ISBN : 9788120351400 eBook ISBN : 9789354435713 | PHI Learning Pvt. Ltd, Delhi (www.phindia.com) |
| | Contents→ | 1. Lasers, 2. Fibre Optics, 3. Holography, 4. The Special Theory of Relativity, 5. The Particle Nature of Radiations, 6. Photoconductivity and Photovoltaics | | |
| 20. | Devraj Singh | 2015 | A Textbook of Engineering Physics (For Kerala Tech. University) ISBN: 9788177001693 | Dhanpat Rai & Co. Pvt. Ltd., New Delhi |
| | Contents→ | 1. Harmonic Oscillations, 2. Waves, 3. Interference of Light Waves, 4. Diffraction of Light Waves, 5. Polarization of Light Waves, 6. Superconductivity, 7. Quantum Mechanics, 8. Statistical Mechanics, 9. Acoustics, 10. Ultrasonics, 11. Lasers, 12. Photonics, 13. Experiments. | | |
| 21. | J. Kumar, A. K. Tiwari, Devraj Singh | 2017 | Electronic Devices & Circuits [For GGSIPU, Delhi] ISBN-13: 978-1-78332-272-5, ISBN: 9781783322725 | ALPHA SCIENCE INTERNATIONAL LIMITED, Oxford, U.K./ Narosa Publishing House Pvt. Ltd., New Delhi |
| | Contents→ | 1. Physical Properties of Elements, 2. P-N Junction Diode, 3. Special Purpose Electronic Devices, 4. Rectifier, Filters and Power Supplies, 5. Bipolar Junction Transistors, 6 Transistor Biasing and Stabilization, 7. Hybrid Parameters and UJT, 8. Field Effect Transistors, 9. FET Amplifiers. | | |
| 22. | Devraj Singh and D. K. Singh | 2018 | Foundation of Physics [For SBTE, Jharkhand] ISBN: 9788177002331 | Dhanpat Rai & Co. Pvt. Ltd., New Delhi |
| | Contents→ | 1. Units and Measurements, 2. Angular Motion, 3. Elasticity, 4. Surface Tension, 5. Viscosity, 6 Transmission of Heat and Expansion of Solids, 7. Sound, 8. Properties of Light, 9. Photo-electricity, 10. Lasers, 11. X-Rays, 12. Newton's Laws of Motion, 13. Work, Energy and Power, 14. Acoustics of Building, 15. Electric Field, 16. Electric Potential, 17. Fibre Optics, 18. Band Theory of Solids, 19. Nanotechnology, 20. Non-Conventional Sources of Energy and 21. Experiments | | |
| Edited Book | | | | |
| Proceedings of National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) ISBN: 978-81-930894-1-5 | | Editors: S. J. Dhoble O.P. Chimankar, Devraj Singh and Dr. N. R. Pawar | | ISST, Ghaziabad, U.P. |
| Ultrasonics and Materials Science for Advanced Technology 2020 ISBN: 978-81-8487-703-8 | | Editors: Giridhar Mishra Punit K. Dhawan Manish Kumar Gupta Devraj Singh | | Narosa Publishing House Pvt. Ltd., New Delhi |



(Prof. Devraj Singh)