

Dr. SOURAV GUPTA

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EDUCATIONAL QUALIFICATIONS

- 2014-2019: Ph.D., Department of Mathematics, IIT Kharagpur, India. Date of Joining – 24.06.2014, Date of PhD viva: 13.12.2019, Date of Award: 23.12.2019, CGPA (Coursework) – 8.31/10
Title of Thesis: “**Investigation of wave structure interaction problems using integral equations**” under the supervision of Dr. Rupanwita Gayen.
- 2012-2014: M.Sc. (Mathematics), IIT Kharagpur, India. CGPA – 8.72/10
Project: “Use of direct polynomial in numerical solutions of Volterra Integral Equations” under the supervision of Dr. Rupanwita Gayen, IIT Kharagpur.
- 2009-2012: B.Sc. (Mathematics), University of Calcutta (Raja Peary Mohan College, Uttarpara), India. Percentage – 67 %
- 2009: Higher Secondary, Rishra High School, Rishra, Hooghly, West Bengal, India. Percentage – 82 %
- 2007: Secondary, Rishra High School, Rishra, Hooghly, West Bengal, India. Percentage – 83.63 %

TEACHING EXPERIENCE

- Assistant Professor, Department of Mathematics and Humanities, Sardar Vallabhbhai National Institute of Technology Surat, India, July 2021-Till Now.
- Adjunct Assistant Professor, Department of Mathematics, Visvesvaraya National Institute of Technology Nagpur, India, January 2020 - June 2020.
- Adjunct Assistant Professor, Department of Mathematics, Visvesvaraya National Institute of Technology Nagpur, India, July 2019 - December 2019.

- Teaching Assistant for Mathematics – I & II (UG Course), Department of Mathematics, IIT Kharagpur, India, 2015-2018.

RESEARCH INTEREST

- Linear Water Wave Theory
- Integral Equations
- Numerical Analysis

LIST OF PUBLICATIONS

1. R. Gayen, **Sourav Gupta**, A. Chakrabarti, Water wave scattering by a thin vertical submerged permeable plate, *Mathematical Modelling and Analysis*. 26(2021) 223-235.
2. Souvik Kundu, R. Gayen, **Sourav Gupta**, Propagation of surface waves past asymmetric elastic plates, *Journal of Engineering Mathematics*. 126(2021) 1-24.
3. R. Gayen, **Sourav Gupta**, Scattering of surface waves by a pair of asymmetric thin elliptic arc shaped plates with variable permeability, *European Journal of Mechanics / B Fluids*. 80(2020) 122-132.
4. R. Gayen, **Sourav Gupta**, Interaction of water waves with permeable barrier using Galerkin approximation, *Journal of Applied Fluid Mechanics*. 13(2020) 357-369.
5. R. Gayen, **Sourav Gupta**, Water wave scattering by two circular-arc-shaped thin plates with non-uniform permeability, *Proceedings of the ASME 37th International Conference on Ocean, Offshore and Arctic Engineering(OMAE 2019), June 9-14, 2019, Glasgow, Scotland, UK*.
6. **Sourav Gupta**, R. Gayen, Water wave interaction with dual asymmetric non-uniform permeable plates using integral equations, *Applied Mathematics and Computation*. 346 (2019) 436-451.
7. **Sourav Gupta**, R. Gayen, Scattering of oblique water waves by two thin unequal barriers with non-uniform permeability, *Journal of Engineering Mathematics*. 112 (2018) 37-61.
8. R. Gayen, **Sourav Gupta**, A. Chakrabarti, Approximate solution of the problem of scattering of surface water waves by a partially immersed rigid plane vertical barrier, *Applied Mathematics Letters*. 58 (2016) 19-25.
9. R. Gayen, **Sourav Gupta**, Approximate solutions of the systems of Volterra integral equations, *Journal of Advanced Research in Scientific Computing*. 7 (2015) 52-61

REVIEWER OF JOURNALS

- Fluid Dynamic Research (Published by IOP Publishing).
- Waves in Random and Complex Media (Published by Taylor & Francis Online).
- Ocean Engineering (Published by Elsevier)

CONFERENCES

1. Presented “**Interaction of water waves with permeable barrier using Galerkin approximation**” at “**Indo-German Conference on Modeling, Simulation and Optimization in Applications**” organized by “Department of Mathematics, Bankura University” during Feb 22-24, 2017.
2. Presented “**Oblique water wave diffraction by two unequal partially immersed barriers with variable permeability**” at “**62nd ISTAM Conference**” organized by “University College of Engineering, Osmania University” during December 15-18, 2017.
3. Presented “**Water wave interaction with two submerged unequal plates of non-uniform permeability**” at “**SIAM Annual Meeting 2018 (AN18)**” during July 9-13, 2018.

WORKSHOPS

- Attended GIAN Course on **Computational Methods in Hydroelasticity**, Dec 12- Dec 16, 2016 at Department of Ocean Engineering and Naval Architecture, Indian Institute of Technology Kharagpur, Kharagpur, India.

ACHIVEMENTS

- Qualified ‘**Joint Admission Test for M. Sc. -2012**’ exam in Mathematics (All India Rank 53).
- Qualified ‘**GATE-2014**’ exam in Mathematics (All India Rank 49).
- Qualified ‘**WBSET-2016**’ exam in Mathematics.
- Qualified ‘**CSIR UGC NET (JRF) -2016 (JUNE)**’ exam in Mathematical Science (All India Rank 133).

FELLOWSHIPS

- ‘**Institute Scholar**’ (July 2012 – May 2014) for M.Sc. from IIT Kharagpur.
- ‘**Institute Research Assistantship**’ (June 2014 – June 2019) for Ph.D. from IIT Kharagpur.

COMPUTER PROFICIENCY

- **Operating System** : Windows.
- **Software Tools** : MS Office, MS Office PowerPoint Presentation.
- **Programming Tools** : C, MATLAB, MATHEMATICA, LATEX.

EXTRACURRICULAR ACTIVITY

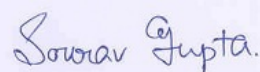
- Served as “Network Secretary” in Hall Council of B. C. Roy Hall of Residence, IIT Kharagpur during the academic session 2016-2017.

REFERENCES

- Dr. Rupanwita Gayen, Associate Professor, Department of Mathematics, IIT Kharagpur, Kharagpur 721302, India. Email: rupanwita@maths.iitkgp.ac.in
- Prof. B. N. Mandal, Professor (Retd.), Physics and Applied Mathematics Unit, ISI Kolkata, Kolkata 700108, India. Email: bnm2006@rediffmail.com

DECLARATION

I, **Sourav Gupta**, do hereby declare that the information given above is true to the best of my knowledge and I can provide documentary evidence to verify all the given information



Place: Surat

Date: 11/08/2021

Sourav Gupta