Curriculum Vitae

Muhammad, S.

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| Objective | Seeking to use my expertise, knowledge, and dedication to help produce high quality graduates and play my part to establish a healthy and conducive teaching and research culture. | | |
| Education | PhD, Applied Mathematics, September 2006 - April 2012 | | |
| | Department of Applied Mathematics, Delft University of Technology, The Netherlands | | |
| | Dissertation Topic: "Dynamic Positioning of Ships: A nonlinear control design study" | | |
| | M.Sc., Mathematics, October 1997 - September 1999 | | |
| | Department of Mathematics, Islamia University Bahawalpur, Pakistan Courses studied: Real Analysis and Lebsegue Integration, Fluid Mechanics, Quantum Mechan- ics, Operation Research, Mathematical Statistics, Numerical Analysis, Mathematical Methods and Mechanics, Topology, Functional Analysis, Fortran and its Applications to the Numerical Analysis, and Complex Analysis. | | |
| | B.Sc., September 1997 | | |
| | University of Punjab, Lahore, Pakistan Courses studied: Maths (A & B Course) and I | Physics | |
| WORK EXPERIENCE Associate Professor of Mathematics June 21, 2023 - To Date | | | |
| | Department of Mathematics, King Saud University, Riyadh, Kingdom of S I am doing teaching and research. | Saudi Arabia | |
| | Assistant Professor of Mathematics | September 2, 2019 - June 20, 2023 | |
| | Department of Mathematics, King Saud University, Riyadh, Kingdom of Saudi Arabia I am doing teaching and research. | | |
| | Assistant Professor of Mathematics | June 2014 - August 31, 2019 | |
| | Department of Mathematics, Mirpur University of Science & Technology, Mirpur, AJ&K, Pakistan I am doing mainly teaching and research but I am also member of some departmental committees which take care of various administrative matters. | | |
| | Assistant Professor of Mathematics | May 2012 - May 2014 | |
| | Department of Electrical Engineering, Namal College, An Associate College of the Pakistan | e University of Bradford (UK), Mianwali, | |
| | | | |

My main responsibility was teaching but I also performed many administrative duties as well. I was incharge of examination section of the college for two years. I was also member of accreditation committee and the committee for preparing the case for DAI status of the college.

PhD Student

Delft University of Technology, The Netherlands

As a PhD student, I did reviews of several scientific papers, delivered several talks at various conferences, and published three journal papers.

Scientific Officer

September 2001 - June 2005

September 2006 - April 2012

Ghulam Ishaq Khan (GIK) Institute of Engineering Sciences and Technology, Topi, Khyber Pakhtoonkhwa, Pakistan

- **Responsibilities:** My responsibilities include preparing, managing, and marking home assignments, quizzes, and examinations of undergrad level Mathematics courses taught to engineering students.
- **Courses:** The courses include Calculus, Differential Equations, Discrete Mathematics, Engineering Statistics (Probability and Statistics), Numerical Analysis, and Mathematical Transforms (Laplace and Fourier).
- Research Projects
- Deanship of Scientific Research (DSR), Research Grant No. RG-1441-351, King Saud University, Riyadh, Saudi Arabia
- Researchers Supporting Project number (RSPD2023R733), King Saud University, Riyadh, Saudi Arabia
- Researchers Supporting Project number (RSPD2024R733), King Saud University, Riyadh, Saudi Arabia

Honors and Awards

- Higher Education Commission's (HEC) Overseas Fellowship for PhD, 2006
- Punjab Public Service Commission (PPSC): Ranked second on merit list of 400 lecturers selected from a bunch of 2000 candidates in Mathematics, 2001.
- Islamia University Bahawalpur: Ranked first in a class of 100 in M. Sc. Mathematics
- PUBLICATIONS
- Abbas, N., Hussain, A., Muhammad, S., Shuaib, M., and Herrera, J. 2024. Lie symmetry analysis, traveling wave solutions and conservation laws of a Zabolotskaya-Khokholov dynamical model in plasma physics. Results in Physics (Netherlands), 65, https://doi.org/10.1016/j.rinp.2024.107986. (September 2024)
 - Rathore, S., Singh, S. S., Muhammad, S., and Zotos, E. E. 2024 Phase space properties of cosmological models in f(Q,T) gravity. The European Physical Journal C (Germany), 84, https://doi.org/10.1140/epjc/s10052-024-13464-4. (October 2024).
 - Salahuddin, T, Awais, M., and Muhammad, S. 2024. Featuring the aspects with temperature dependent viscosity of inclined MHD Williamson fluid along with heat source/sink, Soret and Dufour effects: A predictor-corrector approach. International Communications in Heat and Mass Transfer (United Kingdom), https://doi.org/10.1016/j.icheatmasstransfer.2024.108178.
 - Ahmed, N., Yasin, M. W., Ali, S. M., Akgul, A., Raza, A., Rafiq, M., Muhammad, S., and Ali, M. 2024. Investigating the impact of stochasticity on HIV infection dynamics in CD4+ T cells using a reaction-diffusion model. Scientific Reports (United Kingdom), 14, https://doi.org/10.1038/s41598-024-66843-y.
 - Turab, A., Shafqat, R., Muhammad, S., Shuaib, M., Khan, M. F., and Kamal, M. 2024. Predictive modeling of hepatitis B viral dynamics: a caputo derivative-based approach using artificial neural networks. Scientific Reports (United Kingdom), 14, https://doi.org/10.1038/s41598-024-70788-7.
 - Samaddar, A., Singh, S. S., Muhammad, S., and Zotos, E. E. 2024 Holographic dark energy models and their behaviors within the framework of (Q, C) gravity theory. Journal of High Energy

Astrophysics (Netherlands), 44, https://doi.org/10.1016/j.jheap.2024.09.001. (September 2024).

- Ghazanfar, S., Ahmed, N., Iqbal, M. S., Ali, S. M., Akgul, A., Muhammad, S., Ali, M., and Hassani, M. K. 2024. Analysis of multi-wave solitary solutions of (2+1)-dimensional coupled system of Boiti-Leon-Pempinelli. Scientific Reports (United Kingdom), 14, https://doi.org/10.1038/s41598-024-67698-z.
- Abbas, N., Hussain, A., Akram, M. W., Muhammad, S., and Shuaib, M. 2024. Invariant analysis of the multidimensional Martinez Alonso-Shabat Equation. ZEITSCHRIFT FUR NATUR-FORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES (De Gruyter/Germany), https://doi.org/10.1515/zna-2024-0115. (August 2024)
- Samaddar, A., Singh, S. S., Muhammad, S., and Zotos, E. E. 2024 Gravitational baryogenesis in (Q, C) gravity. International Journal of Geometric Methods in Modern Physics (Singapore), 1006, DOI: 10.1142/S0219887824502311. (June 2024).
- Pawar, D. D., Gaikwad, P. S., Muhammad, S., and Zotos, E. E. 2024 Two Fluids in f(T) Gravity with Observational Constraints. Astronomy and Computing (Netherlands), 1006, https://doi.org/10.1016 (August 2024).
- Samaddar, A., Singh, S. S., Muhammad, S., and Zotos, E. E. 2024 Behaviours of rip cosmological models in (Q, C) gravity. Nuclear Physics, Section B (Netherlands), 1006, https://doi.org/10.1016/j.nuclp (July 2024).
- Yasin, M. W., Ahmed, N., Jawaria, S., Baber, M. Z., Ali, S. M., Akgul, A., Muhammad, S., Hassani, M. K., and Ali, M. 2024. Numerical study of diffusive fish farm system under time noise. Scientific Reports (United Kingdom), 14, https://doi.org/10.1038/s41598-024-62304-8.
- Ullah, I., Ali, N., Ul Haq, I., Albalwi, M. D., Muhammad, S., and Shuaib, M. 2024. Comprehensive analysis of COVID-19 transmission dynamics: mathematical modeling, stability analysis, and optimal control strategies. Physics Scripta (England), 99, https://doi.org/10.1088/1402-4896/ad562c.
- Yingzi, G., Abbas, N., Hussain, A., Samara, F., and Muhammad, S. 2024. Sensitive Visualization, travelling wave structures and nonlinear self-adjointness of Cahn-Allen equation. Optimal and Quantum Electronics (United States), 994, https://doi.org/10.1007/s11082-024-06729-5. (April 2024)
- Ehsan Ullah, M., Idrees, M., Shuaib, M., and Muhammad, S., 2024 Numerical investigation of heat transfer enhancement in magnetohydrodynamics ternary ferrofluids on nonlinear stretching sheet. Case Studies in Thermal Engineering (United Kingdom), 59, https://doi.org/10.1016/j.csite.2024.1 (May 2024).
- Muhammad, S., Abbas, N., Hussain, A., and Az-zo'bi, E. 2024. Dynamical features and traveling wave structures of the perturbed Fokas-Lenells equation in nonlinear optical fibers. Physics Scripta (England), 99, https://doi.org/10.1088/1402-4896/ad1fc7.
- Awais, M., Salahuddin, T, and Muhammad, S. 2024. Unsteady non-Newtonian [°]uid [°]ow past an oscillating vertical plate with temperature-dependent viscosity: A numerical study. International Journal of Modern Physics B (Singapore), DOI: 10.1142/S0217979224504319.
- Anwar, T., Asifa, Kumam, P., Al-Zahar, E. R., Muhammad, S., and Seddek, L. F., 2023. Thermal analysis of mineral oil-based hybrid nanofluid subject to time-dependent energy and flow conditions and multishaped nanoparticles. Journal of Thermal Analysis and Calorimetry (Netherlands), https://doi.org/10.1007/s10973-023-12622-2.
- Fatima, S., Abbas, N., and Muhammad, S. 2023. Dynamical features and sensitivity visualization of thin-film Polarisation equation. Physics Scripta (England), 98, https://doi.org/10.1088/1402-4896/ad01ee.
- Salahuddin, T., Iqbal, M. A., Bano, A., Awais, M., and Muhammad, S. 2023. *Cattaneo-Christov* heat and mass transmission of dissipated Williamson fluid with double stratification. Alexandria Engineering Journal (Netherlands), 80, (553-558), https://doi.org/10.1016/j.aej.2023.09.012.
- Awais, M., Salahuddin, T, and Muhammad, S. 2023. Effects of viscous dissipation and activation energy for the MHD Eyring-powell fluid flow with Darcy-Forchheimer and variable fluid properties. Ain Shams Engineering Journal (Netherlands), https://doi.org/10.1016/j.asej.2023.102422.
- Asifa, Anwar, T., Kumam, P., Suttiarporn, P., and Muhammad, S. 2023. A fractal-fractional model-based investigation of shape influence on thermal performance of tripartite hybrid nanofluid

for channel flows. Numerical Heat Transfer, Part A: Applications (USA), 84(4). https://doi.org/10.1080/

- Anwar, T., Asifa, Kumam, P., El-Zahar, E. R., Sitthithakerngkiet, K., and Muhammad, S. 2023. Comparative thermal analysis of Nickel and Tantalum based hybrid nanofluid using constant proportional Caputo and Atangana-Baleanu operators with time-controlled condition. Case Studies in Thermal Engineering (Nederlands), 49. https://doi.org/10.1016/j.csite.2023.103202
- Awais, M., Salahuddin, T, and Muhammad, S. 2023. Evaluating the thermo-physical characteristics of non-Newtonian Casson fluid with enthalpy change. Thermal Science and Engineering Progress (England), https://doi.org/10.1016/j.tsep.2023.101948.
- Asifa, Anwar, T., Kumam, P., Suttiarporn, P., Eldin, S. M., Muhammad, S., and Galal, A. M. 2023. A mathematical study on thermal performance of aluminum and titanium alloys based hybrid nanofluid using a multiparametric fractional operator. Case Studies in Thermal Engineering (Nederlands), 45. https://doi.org/10.1016/j.csite.2023.102909
- Muhammad, S., Anwar, T., Asifa, and Yavuz, M. 2023. Comprehensive Investigation of Thermal and Flow Features of Alloy Based Nanofluid Considering Shape and Newtonian Heating Effects via New Fractional Approach. Fractal and Fractional (Switzerland), 7(2), 150. https://doi.org/10.3390/ fractalfract7020150
- Asifa, Anwar, T., Kumam, P., and Muhammad, S. 2022. New fractional model to analyze impacts of Newtonian heating, shape factor and ramped flow function on MgO-SiO₂-Kerosene oil hybrid nanofluid. Case Studies in Thermal Engineering (Nederlands). https://doi.org/10.1016/j.csite.2022.10236
- Asifa, Anwar, T., Kumam, P., and Muhammad, S. 2022. Comparative study on heat transfer performance of γAl₂O₃ - C₂H₆O₂ and γAl₂O₃ - H₂O₂ nanofluids via Prabhakar fractional derivative model for MHD channel flows. Case Studies in Thermal Engineering (Nederlands). https://doi.org/10.1016/j.csite.2022.102319
- Malik, R., Alam, M., Muhammad, S., Duraihem, F. Z., and Massoud, Y. 2022. Second-Order Arnoldi Reduction Using Weighted Gaussian Kernel. IEEE Access (USA). pg: 41362-41370, V.10, DOI: 10.1109/ACCESS.2022.3167732.
- Malik, R., Alam, M., Muhammad, S., Hussain, R., Ali, A., Akram, N., Duraihem, F. Z., and Ul Haq, A. 2021. Statistically inspired multi-shift Arnoldi projection for on-chip interconnects. Mathematics and Computers in Simulation (Netherlands), https://doi.org/10.1016/j.matcom.2021.05.025
- Anwar, T., Kumam, P., Asifa, Thounthong, P., Muhammad, S., and Duraihem, F. Z. 2021. Generalized thermal investigation of unsteady MHD flow of Oldroyd-B fluid with slip effects and Newtonian heating; a Caputo-Fabrizio fractional model. Alexandria Engineering Journal (Netherlands). https://doi.org/10.1016/j.aej.2021.06.090
- Muhammad, S., Duraihem, F. Z, Chen, W., and Zotos, E. E., 2021. On the nature of equilibrium points in the axisymmetric five-body problem. Journal of Computational and Nonlinear Dynamics (USA). 16:091002-1:9, DOI: 10.1115/1.4051476.
- Muhammad, S., Duraihem, F. Z, Chen, W., and Zotos, E. E., 2021. On the equilibria of the planar equilateral restricted four-body problem with radiation pressure. Advances in Applied Mathematics and Mechanics (Hong Kong), 13(4):966-981, https://DOI: 10.4208/aamm.OA-2020-0264.
- Muhammad, S., Duraihem, F. Z, and Zotos, E. E., 2020. On the equilibria of the restricted four-body problem with triaxial rigid primaries I. Oblate bodies. Chaos, Solitons, and Fractals (England), https://doi.org/10.1016/j.chaos.2020.110500.
- Akram, N., Alam, M., Hussain, R., Ali, A., Muhammad, S., Malik, R., and Ul Haq, A. 2020. *Passivity Preserving Model Order Reduction Using the Reduce Norm Method*. Electronics (Switzerland),

doi:10.3390/electronics9060964.

- Idrees, M., Ullah, S., and Muhammad, S. 2019. Sliding Mode Control Design for Stabilization of Underactuated Mechanical Systems. Advances in Mechanical Engineering (England), 11(5):1-10.
- Salahuddin, T, Muhammad, S, and Sakinder, S. 2019. Impact of generalized heat and mass flux models on Darcy-Forchheimer Williamson nanofluid flow with variable viscosity. Physics Scripta (England), https://doi.org/10.1088/1402-4896/ab2e7e.
- Idrees, M., Muhammad, S. and Ullah, S., 2019 Robust Hierarchical Sliding Mode Control with State-dependent Switching Gain for Stabilization of a Rotary Inverted Pendulum. Kybernetika

(Czech Republic), 55 (3):455-471, (September 2019).

- Bukhari, S. Z. H., Salahuddin, T., Muhammad, S., Ahmad, I. and Ishaq, M. 2022. Uniformly Close-to-Convex Functions with Respect to Conjugate Points. Kyungpook Mathematical Journal (South Korea).
- Muhammad, S. and A. Dòria-Cerezo. 2012. Passivity-based control applied to the dynamic positioning of ships. IET Control Theory and Applications (USA), 6(5):680-688.
- Muhammad, S. and J. W. van der Woude. 2011. On stability conditions for systems with periodic state dependent coefficients: a counter example. IMA Journal of Mathematical Control and Information (England), 28(1):97-102.
- Muhammad, S. and J. W. van der Woude. 2009. A counter example to a recent result on the stability of nonlinear systems. IMA Journal of Mathematical Control and Information (England), 26(3):319-323.

Conference Proceedings

- Malik, R., Alam, M., and S. Muhammad. Approximation of Large-scale System using Equivalent-Norm Frequency selected Projection. Proceedings of 19th International Bhurban Conference on Applied Sciences & Technology (IBCAST), August 16-20, 2022, Islamabad, Pakistan.
- Muhammad, S. and U. Z. Mirza. Laguerre Functions Based Model Discrete Predictive Control of Train Engine. Keynote Talk at "The 3rd International Conference on Mathematics, Science, Education, and Technology (ICOMSET 2018)", October 04-05, 2018, Padang, Indonesia.
- Muhammad, S. and M. Idrees. Comparative Study of Hierarchical Sliding Mode Control and Decoupled Sliding Mode Control. Proceedings of 12th IEEE Conference on Industrial Electronics and Applications (ICIEA2017), June 18-20, 2017, Siem Reap, Cambodia.
- Muhammad, S. and A. Dòria-Cerezo. *Output feedback passivity based controllers for dynamic positioning of ships*. Proceedings of Dynamic Positioning Conference, October 12-13, 2010, Houston, USA.
- Muhammad, S. and J. W. van der Woude. *The Fourier series interpolation method for the solution of the SDARE*. Proceedings of the UKACC International Conference on Control (CONTROL 2010), p:769-774, September 7-10, 2010, Coventry, UK.

Conferences, Meetings and Schools

- The 3rd International Conference on Mathematics, Science, Education, and Technology (ICOM-SET 2018), October 04-05, 2018, Padang, Indonesia.
- 12th IEEE Conference on Industrial Electronics and Applications (ICIEA2017), June 18-20, 2017, Siem Reap, Cambodia.
- The UKACC International Conference on Control (CONTROL 2010), September 7-10, 2010, Coventry, UK.
- 29th Benelux Meeting on Systems and Control, March 30-April 1, 2010, Heeze, the Netherlands.
- 28th Benelux Meeting on Systems and Control, March 16-18, 2009, Spa, Belgium.
- 1st Elgersburg School 2009 organized by Technische Universität Ilmenau, March 30-April 3, 2009, Elgersburg, Germany.
- The Third International Conference on Mathematical Sciences, March 3-6, 2008, Al-Ain, UAE.
- COURSES
 Undergrad Level: Vectors and Matrices (Sem I 2022-23), Numerical Methods (Spring 2020, Fall 2020, Spring 2021, Fall 21, Spring 22, Sem II & III 2022-23, Spring 24), Differential and Integral Calculus (Fall 2020, Spring 2021, Fall 21, Spring 22, Sem I, II, & III 2022-23, Fall 2023, Spring 24), Integral Calculus (Fall 2019, Spring 2021, Fall 21, Fall 2023), Metric Spaces (Spring 2019), Calculus I (Fall 2018), Partial Differential Equations (Spring 2018, 2019), Mathematical Physics (Spring 2017, Fall 2017, Fall 2018), Mathematical Systems Theory (Fall 2015, 2016 and 2017, Spring 2016, 2017, and 2018), Numerical Solutions of ODEs (Fall 2014 and Spring 2015), Scientific Programming (Fall 2014, 2015, and 2016, Spring 2015 and 2016), Fluid Mechanics II (Summer 2014), Calculus II (Summer 2014), Engineering Analysis (Fall 2012 and 2013, Spring 2013 and 2014), Advanced Engineering Analysis (Fall 2012),

Graduate Level: Ordinary and Partial Differential Equations (Spring 2020, Fall 2020, Spring

| | 2021, Fall 21, Spring 22, Sem I, II, & III 2022-23, Fall 2023, Spring 24), Advanced Mathemat- ical Physics (Fall 2018), Optimal State Estimation (Spring 2017), Advanced Numerical Analysis (Spring 2014, 2016, and 2017), Nonlinear Systems and Control (Fall 2014, Fall 2015, and Spring 2016), Optimal Control (Spring 2015 and Fall 2016), Design Methods for Control Systems (Fall 2017) |
|------------------------------|---|
| Masters Thesis Supervised | Zobia Kabir, M.Phil Thesis, Self Tuning IMC-PID Control with Interval Gain and Phase Margins Assignment, September 2018 to August 2019. Iqra Kausar, M.Phil Thesis, Linear Quadratic Regulator Controller Design for Ball and Beam Model, September 2018 to August 2019. Sana Sakindar, M.Phil Thesis, Impact of General- ized Heat and Mass Flux Models on Darcy-Forchheimer Williamson Nano-Fuid Flow with Variable Viscosity, September 2017 to August 2018. Somia Ilyas, M.Phil Thesis, A Study of Lyapunov Exponents, February 2017 to March 2018. Usman Zafar Mirza, M.Phil Thesis, A Comparative Study of Model Predictive Control And Linear Quadratic Regulator, February 2017 to March 2018. Afreenash Komal, M.Phil Thesis, Nonlinear Time Series Analysis, February 2017 to March 2018. Syeda Samina Butool, M.Phil Thesis, Kalman Filtering Theory for Discrete Time Varying Uncertain Systems with Multiplicative Noises, February 2016 to March 2017. Muhammad Idrees, M.Phil Thesis, Optimal State Estimation: Kalman, Extended Kalman, and Unscented Kalman Filters, February 2016 to March 2017. Saima Ishaq Badar, M.Phil Thesis, Optimal State Estimation: Kalman, Extended Kalman, and Unscented Kalman Filters, February 2016 to March 2017. Sadia Ameen, M.Phil Thesis, A Study of Discrete Time Kalman Filters, February 2016 to March 2017. Sadia Ameen, M.Phil Thesis, A Study of Discrete Time Kalman Filters, February 2016 to March 2017. Raheela Malik, M.Phil Thesis, A Study of Discrete Time Kalman Filters, February 2015 to January 2017. |
| Projects Supervised | Faiza Noreen et. al., M.Sc Project, Fourier Analysis, September 2018 to August 2019. Jahangir Ali et. al., M.Sc Project, Loop-shaping Techniques for Control Systems, September 2017 to August 2018. Zobia Kabir et. al., M.Sc Project, Linear Quadratic Regulator, February 2016 to January 2017. Daud Ejaz, et. al., BS Project, Feedback Linearization, Spring 2016. Afreenash Komal, et. al., M.Sc Project, A Study of PID Controllers, Fall 2015. Muhammad Idrees, M.Sc Project, Control Law Design for Path Following Problem of Underactuated Surface Vessels based on Hierarchical Sliding Mode Technique, Fall 2014. Toqeer Saeed, M.Sc Project, Control Law Design for Dynamic Positioning based on Vectorial Backstepping Method, Fall 2014. |
| Trainings | "Writing a Successful Research Proposal for Winning Research Grants" by Office of Research, Innovation, and Commercialization (ORIC), MUST, January 14, 2016. "2-Day Orientation Workshop on Policy Guidelines for Semester Examination System" by Aca- demics Division of Higher Education Commission (HEC), held in MUST, August 27-28, 2015. "3-Day Workshop on Teaching & Learning" by Prof M. A. Bokhari, held in Namal College, Mianwali, September 4-6, 2013. "1-Day Workshop on Effective communication (How to get through to people and to be under- stood? the art of conscious speech)" by Dr Zsu (Zsuzsanna), held in Namal College, Mianwali, September 19, 2013. |

| Other Qualifications and Computer Skills | Obtained a Bachelor of Education (B.Ed.) degree in 2000 from AIOU, Islamabad, Pakistan, through distance learning program. MS Office: Working experience in MS Word, Excel, and PowerPoint. Latex: Experience of writing scientific papers in various styles (ieeeconf, ifacconf, blux2010, gCOM2e, etc.) and making presentations. MATLAB: Experience of using various control related toolboxes, writing own codes and using MATLAB built-in routines. Maple: Experience of using MAPLE for scientific work. Operating Systems: Working experience under Linux and Windows. |
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| Hobbies and Pastimes | Sports are my favourite hobby. I love playing and watching cricket. I also like football, hockey, tennis, and atheletics. Reading: My interests include Urdu novels and books on social issues, politics, and history. Travelling: I like to visit new places and to understand different cultures. Social Work: I have strong inclination towards social entrepreneurship. Miscellaneous: I try to keep up-to-date information on current affairs and important developments, happening mainly in my country and partially round the world. |
| Languages | English: Fluent in conversation, reading, and writing Punjabi: Mother tongue Urdu: Fluent in conversation, reading, and writing |
| References | Dr. J. W. van der Woude (Jacob Willem), Associate Professor, Delft Institute of Applied Mathematics (DIAM), Delft University of Technology, Delft, the Netherlands. E-mail: J.W.vanderWoude@tudelft.nl Dr. S. Z. H. Bukhari (Syed Zakir Hussain), Associate Professor, Department of Mathematics, Mirpur University of Science & Technology (MUST), Mirpur, Pakistan. E-mail: fatmi@must.edu.pk Dr. R. Hussain (Rashida), Associate Professor, Department of Mathematics, Mirpur University of Science & Technology (MUST), Mirpur, Pakistan. E-mail: drrashida@must.edu.pk Prof. A. W. Heemink (Arnold), Professor, Delft Institute of Applied Mathematics (DIAM), Delft University of Technology, Delft, the Netherlands. E-mail: A.W.Heemink@tudelft.nl Prof. G. J. Olsder (Geert Jan), Professor Emeritus, Delft Institute of Applied Mathematics (DIAM), Delft University of Technology, Delft, the Netherlands. E-mail: G.J.Olsder (Geert Jan), Professor Emeritus, Delft Institute of Applied Mathematics (DIAM), Delft University of Technology, Delft, the Netherlands. E-mail: G.J.Olsder (Geert Jan), Professor Emeritus, Delft Institute of Applied Mathematics (DIAM), Delft University of Technology, Delft, the Netherlands. E-mail: G.J.Olsder@tudelft.nl Dr. E. D. Kim (Edward), Associate Professor, Department of Mathematics and Statistics, University of Wisconsin-La Crosse., USA. E-mail: edward.d.kim@gmail.com, ekim@uwlax.edu |