

Curriculum Vitae

PERSONAL INFORMATION

Dr. Rahim Bux Khokhar
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Birth date: 01 May 1966

Place of birth: Khairpur, Pakistan

Marital status: Married

EDUCATION

- 2017 **Ph.D. Computational Fluid Dynamics**
University of Hertfordshire, Hatfield, England, UK
Thesis: [Numerical Modelling of Mixing and Separating of Fluid Flows through Porous Media](#)
Supervisors: Dr. Y. K. Chen and Dr. Y. Xu
- 1992 **M.Sc. Mathematics**
University of Sindh, Jamshoro, Sindh, Pakistan
- 1991 **B.Sc. Mathematics**
University of Sindh, Jamshoro, Sindh, Pakistan

PROFESSIONAL EXPERIENCE

- 1998– **Mehran University of Engineering and Technology**
Position: Lecturer
- 1993–1998 **Cadet College Petaro**
Position: Lecturer

PUBLICATIONS

- **Khokhar, R. B.**, Bhutto, A. A., Siddiqui, N. F., Shaikh, F. and Bhutto, I. A. (2023), Numerical analysis of flow rates, porous media, and Reynolds numbers affecting the combining and separating of Newtonian fluid flows, VFAST Transactions on Mathematics, vol 11(1), pp. 217-236.
- Bhutto, I. A., Bhutto, A. A., **Khokhar, R. B.**, Soomro, M. A. and Shaikh, F. (2023), The effect of uniform and exponential streams on Magnetohydrodynamic flows of viscous fluids, VFAST Transactions on Mathematics, vol 11(1), pp. 121-140.
- Meghwar, T., Kumar, P., **Khokhar, R. B.**, Shaikh, A. A., Hincal, E. and Solangi, M. A. (2023), Development of an Explicit Iterative Numerical Scheme Over the Modified Euler's Method, VFAST Transactions on Mathematics, vol 11(1), pp. 107-120.
- Qureshi, U. K., Aarain, M. B., **Khokhar, R. B.** and Bashir, M. (2023), Cubic Iterated Methods of Numerical Differential Method for Solving Non-Linear Physical Functions, VFAST Transactions on Mathematics, vol 11(1), pp. 96-106.
- Bhutto, A. A., Shah, S. F., **Khokhar, R. B.**, Harijan, K. and Hussain, M. (2023), To Investigate Obstacle Configuration Effect on Vortex Driven Combustion Instability, VFAST Transactions on Mathematics, vol 11(1), pp. 67-83.
- Shaikh, K., Shaikh F., **Khokhar, R. B.** and Memon, K. N. (2022), Analytical Solution of Transient Flow of Fractional Oldroyd-B Fluid between Oscillating Cylinders, VFAST Transactions on Mathematics, vol 10(2), pp. 21-33.
- Memon, R. A., Solangi, M. A., **Khokhar, R. B.**, Baloch, A. and Sayed, K. S. (2015), Computational analysis of rotating mixing of Bird Carreau model fluid, Sindh University Research Journal Science Series, vol. 47(1), pp. 15-18.
- **Khokhar, R. B.**, Chen, Y. K., Calay, R. K. and Xu, Y. (2013), Numerical scheme to simulate combined mixing and separating flow in a channel, Applied Mechanics and Materials, Vols. (303-306), pp. 2798-2805.
- **Khokhar, R. B.**, Chen, Y. K., Xu, Y. and Calay, R. K. (2013), Numerical simulation of combined mixing and separating flow in channel filled with porous media, Advanced Materials Research Vols. (694-697), pp. 639-647.
- Solangi, M. A., **Khokhar, R. B.** and Baloch, A. (2013), A FEM Study for Non-Newtonian behaviour of blood in plaque deposited capillaries: analysis of blood flow structure, Mehran University Research Journal of Engineering and Technology, vol. 32 (2), pp. 277-282.
- Solangi, M. A., Shaikh, H., **Khokhar, R. B.** and Baloch, A. (2013), Numerical Study of Newtonian blood flow through a plaque deposited artery, Sindh University Research Journal Science Series, vol. 45 (1), pp. 79-82.

- Solangi, M. A., **Khokhar, R. B.** and Baloch, A. (2012), Computational modelling of pressure difference for non-Newtonian behaviour of blood in plaque deposited capillaries, Sindh University Research Journal Science Series, vol. 44(4), pp. 723-726.

HONOURS, AWARDS & SCHOLARSHIPS

2006	Granted scholarship for PhD studies abroad (Faculty Development Program).
2006	Member of Syndicate, Mehran University of Engineering and Technology, Jamshoro.
1998	Honoured with a commendation certificate including a cash award for service to Cadet College Petaro.
1992	First Class and first position in the cohort of MSc Mathematics.
1991	First Class and third position in the cohort of BSc Mathematics.

LANGUAGES

Sindhi, Saraiki (native)
Urdu, English (fluent)
Arabic (basic)