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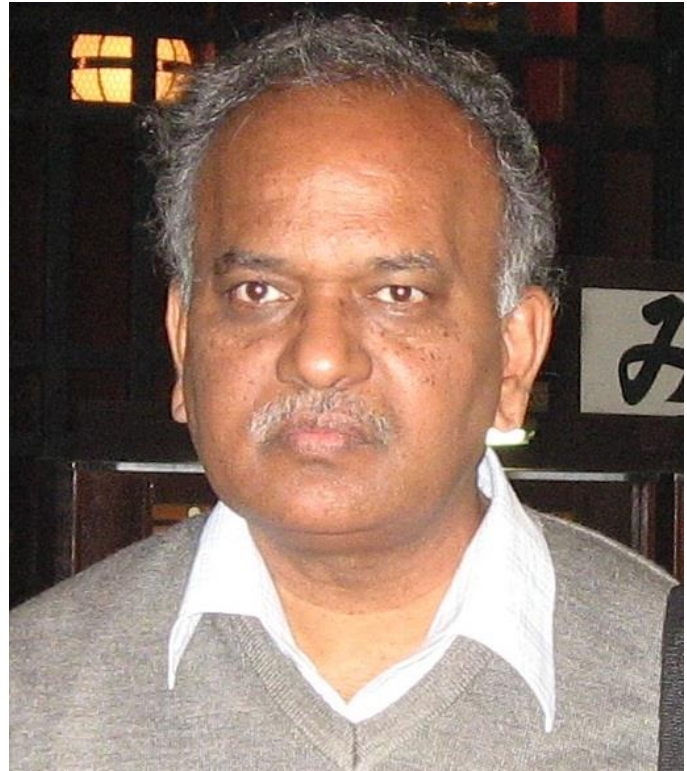


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ORCID ID	
Area of Interests	Gas Dynamics



International Journal of Aviation Science and Technology



Biographical
Sketch
(Approximately
200 words)

Ethirajan Rathakrishnan is professor of Aerospace Engineering at the Indian Institute of Technology Kanpur, India. He is well known internationally for his research in the area of high-speed jets. The limit for the passive control of jets, called the Rathakrishnan Limit, is his contribution to the field of jet research, and the concept of breathing blunt nose (BBN), which simultaneously reduces the positive pressure at the nose and increases the low pressure at the base is his contribution to drag reduction at hypersonic speeds. Positioning the twin-vortex Reynolds number at around 5000, by changing the geometry from cylinder, for which the maximum limit for the Reynolds number for positioning the twin-vortex was found to be around 160, by von Karman, to flat plate, is his addition to vortex flow theory.

He is a Fellow of many professional societies including the Royal Aeronautical Society. Rathakrishnan serves as the Editor-in-Chief of the International Review of Aerospace Engineering (IREASE) and International Review of Mechanical Engineering (IREME) journals. He has authored the following books: Gas Dynamics, 7th ed. (PHI Learning, New Delhi, 2020); Fundamentals of Engineering Thermodynamics, 2nd ed. (PHI Learning, New Delhi, 2005); Fluid Mechanics: An Introduction, 4th ed. (PHI Learning, New Delhi, 2022); Gas Tables, 3rd ed. (Universities Press, Hyderabad, India, 2012); Theory of Compressible Flows (Maruzen Co., Ltd. Tokyo, Japan, 2008); Gas Dynamics Work Book, 2nd ed. (Praise Worthy Prize, Napoli, Italy, 2013); Elements of Heat Transfer (CRC Press, Taylor & Francis Group, Boca Raton, Florida, USA, 2012); Theoretical Aerodynamics, (John Wiley, New Jersey, USA, 2013); High Enthalpy Gas Dynamics (John Wiley & Sons Inc., 2015); Dynamique Des Gaz (Praise Worthy Prize, Napoli, Italy, 2015); and Instrumentation, Measurements and Experiments in Fluids, 2nd ed. (CRC Press, Taylor & Francis Group, Boca Raton, Florida, USA, 2017), Helicopter Aerodynamics, (PHI Learning, New Delhi, 2019); Applied Gas Dynamics 2nd ed. (John Wiley & Sons Inc., 2019); Introduction to Aerospace Engineering: Basic Principles of Flight, (John Wiley & Sons Inc., 2021), Encyclopedia of Fluid Mechanics (CRC Press, Taylor & Francis Group, Boca Raton, Florida, USA, 2012),.

Japan (Praise Worthy Prize, Napoli, Italy, 2021), Mind Power: The Sixth Sense (Routledge, UK, 2022).



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Keywords for
reviews (min
seven
keywords)

1. Gas dynamics
2. Jets
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
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- 11.