About the Author

Born in Malda, West Bengal (India), **Subir Kumar Saha** completed most of his school studies from Vidyasagar Vidyapith, Midnapore (also in West Bengal). He obtained a BE (Mech.) from RE College (now NIT), Durgapur in 1983, followed by a Master's from IIT Kharagpur in 1985. He then obtained a PhD degree from McGill University, Canada, in 1991, and immediately joined the R&D Center of Toshiba Corporation in Japan. At Toshiba, he worked on space robot dynamics. In 1995, he returned to IIT Madras as a Visiting Faculty, before joining IIT Delhi in 1996 as an Assistant Professor. Since 2006 he is a Professor at IIT Delhi, and presently he holds the Naren Gupta Chair Professorship at IIT Delhi.

Prof. Saha is in the Dean's Honors' List of McGill University for his Excellent PhD thesis, and received the Humboldt Fellowship during 1999-2000 when he was at the University of Stuttgart, Germany. He has also been a visiting faculty/researcher to several universities abroad, for example, McGill University, Canada, Monash University, Australia, University of Verona, Italy, and Waseda-IPS, Japan.

Prof. Saha is actively engaged in teaching, research, and technology development. His present book's (*Introduction to Robotics*) first edition was widely acclaimed by readers in India and abroad. The RoboAnalyzer software (*http://www.roboanalyzer.com*) that complements the book was also well received and is very popular. He established the SAE-IIT Delhi Chapter in 1997, Robotics Club in 2002, Mechatronics Laboratory in July 2001, and contributed significantly in setting up the Programme for Autonomous Robotics (PAR) Laboratory in May 2010. His research, consultancy, and training activities with many private companies like Asahi India, Sona Steering, Minda-Huf, SAMTEL Colour Tubes, and public sectors like BHEL, CEPC, and government agencies like DST, MIT, CWDB, Simulator Development Division, BARC/BRNS are clear indicators of the industries' confidence in Prof. Saha's commitment. Prof. Saha has more than 185 research publications in reputed journals and conference proceedings, and has delivered more than 160 invited lectures.

Two of Prof. Saha's special interests are (1) popularizing the concept of engineering education through participation in robotics competitions. In this regard, he has been guiding students of IIT Delhi since 2003 to take part in Doordarshan-Robocon competitions. The team was the champion in 2007 and represented India in the international competition held in Hanoi, Vietnam. To strengthen the concept, Prof. Saha has introduced the concept of *Robotics Competition Based Education in Engineering* (RoCK-BEE) on which he has already delivered about 58 lectures, and published a fiction with his student (www.pothi.com). (2) In order to convert engineering problems faced by the rural people of India and the world into research topics or design challenges, and solve them using modern tools like a software or theory, the concept of *Multibody Dynamics for Rural Applications or* MuDRA was conceived. A monograph on *Dynamics and Balancing of Multibody* Systems by Springer, Germany, was published to demonstrate the concept, and a total of 41 lectures were delivered in India and abroad (Poland, the USA, Mexico, and Japan) in the last seven years.