

Curriculum Vitae

Born on March 9, 1963, at Ranchi, Jharkhand, the author completed his graduation in Metallurgical Engineering in the year 1986 from Bihar Institute of Technology, Sindri. He joined Quality Assurance Establishment (Metals) Rourkela, DGQA and worked in various areas like process control, testing and evaluation, and failure investigation of steel products before joining National Institute of Technology, Jamshedpur in the year 1997. He has completed his M.E. in Metallurgical Engineering at NIT Rourkela (formerly known as REC Rourkela) in the year 1994. The keen interest of the author for advanced research made him to join the Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur in 2002 as QIP scholar. He has to his credentials three international publications from his research work till date. In addition to that he has presented papers in a number of seminars and conferences. A part of the results contained in the present thesis have been published as shown below.

1. Kumar, A., Singh, S. B. and Ray, K. K. (2008), Influence of Bainite/Martensite Content on the Tensile Properties of Low Carbon Dual-Phase Steels, Materials Science and Engineering, Vol. 474A, pp. 270-282.
2. Kumar, A., Singh, S. B. and Ray, K. K. (2008), Fatigue Crack Growth Behaviour of Ferrite-Bainite Dual-Phase Steels, Materials Science and Technology, DOI 10.1179/174328408X282083.
3. Kumar, A., Singh, S. B. and Ray, K. K. (2008), Short Fatigue Crack Growth Behaviour in Ferrite-Bainite Dual-Phase Steels, ISIJ International, Vol.48, No. 9, pp. 1285-1292.
4. Kumar, A., Singh, S. B. and Ray, K. K. (2006), Influence of Microstructure on Short Crack Fatigue Threshold in Ferrite-Bainite Dual-Phase Steel: Proceedings of International conference on advances in materials and materials processing (ICAMMP) Kharagpur, India, 3-5 Feb, pp. 281-287.