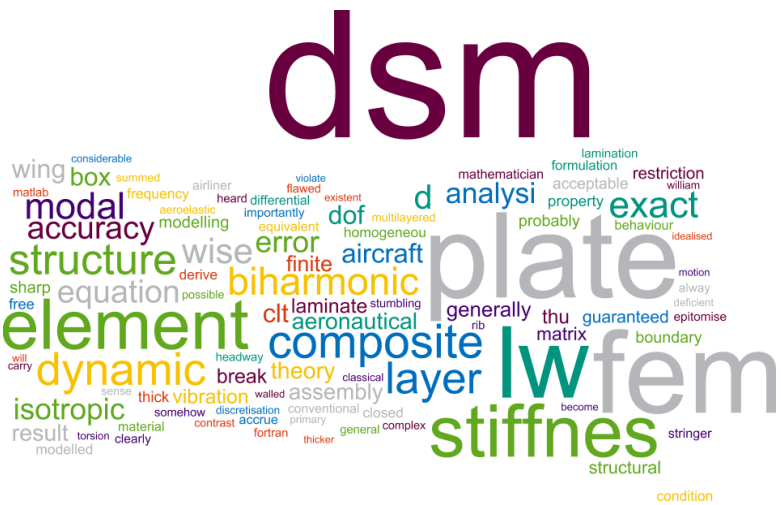

Professor Ranjan Banerjee (J.R. Banerjee)

See:
http://www.city.ac.uk/people/academics/ranjan-banerjee
https://scholar.google.com/citations?user=8QIfZ6IAAAAJ&hl=en
https://www.researchgate.net/profile/JR_Banerjee
http://serials.unibo.it/cgi-ser/start/en/spogli/ds-s.tcl?authors=%22BANERJEE+JR%22&language=ENGLISH
http://gow.epsrc.ac.uk/NGBOViewPerson.aspx?PersonId=823

Professor of Structural Dynamics
School of Mathematics, Computer Science & Engineering, Department of Mechanical Engineering & Aeronautics
City University of London

Biography:
Professor Ranjan Banerjee (J.R. Banerjee) received his Bachelor's and Master's Degree in Mechanical Engineering from the University of Calcutta (1969) and the Indian Institute of Technology, Kharagpur (1971) respectively. He joined the Structural Engineering Division of the Indian Space Research Organisation, Trivandrum and worked there for four years (1971-75) first as a Structural Engineer and then as a Senior Structural Engineer. He was involved in the research and development of multistage solid propellant rocket structures with particular emphasis on dynamic response. Later in the year 1975 he was awarded a Commonwealth Scholarship by the Association of Commonwealth Universities to study for a PhD degree at Cranfield University where he conducted research within the technical areas of structural dynamics and aeroelasticity. He completed his PhD in 1978. An important spin-off from his PhD work is the development of an aeroelastic package called CALFUN (CALculation of Flutter speed Using Normal modes) which has been extensively used as a teaching and research tool in aeroelastic studies. Professor Banerjee joined the University of Cardiff as a Research Associate in 1979 and worked there for six years on vibration and buckling characteristics of space structures using the dynamic stiffness method. He worked in close collaboration with NASA, Langley Research Center, and was principally involved in the development of the well established computer program BUNVIS (BUckling or Natural VIbration of Space Frames) which was later used by NASA and other organizations to analyse spacecraft structures. He was promoted to the position of Senior Research

Associate in 1982. Professor Banerjee joined City University in 1985 as a Lecturer in Aircraft Structures. He was promoted to Senior Lectureship and Readership in 1994 and 1998 respectively. In March 2003 he was promoted to Professorship. He was elected into the EPSRC Peer Review College in 1996 and served until 1999, and was re-elected in 2002, and is currently serving in the College. He has continued to teach the subjects of mechanics, strength of materials, aircraft structures and composite materials, and is carrying out research in the field of structural dynamics and aeroelasticity. To date he has published around one hundred and fifty papers in international journals and established conferences.

Education:
DSc Structural Dynamics, City University London (2016)
PhD Aircraft Design, Cranfield University (1978)
MTech Mechanisms & Vibration, IIT Kharagpur (1971)
BEng Mechanical Engineering, Calcutta University (1969)

Career:
03/2003 - to date City University London, Professor of Structural Dynamics
04/1998 - 02/2003 City University London, Reader
04/1994 - 03/1998 City University London, Senior Lecturer
09/1985 - 03/1994 City University London, Lecturer
02/1982 - 08/1985 University of Cardiff, Senior Research Associate
02/1979 - 01/1982 University of Cardiff, Research Associate
10/1975 - 01/1979 Cranfield University, Commonwealth Research Scholar
07/1975 - 09/1975 Indian Space Research Organisation, Senior Structural Engineer
08/1971 - 06/1975 Indian Space Research Organisation, Sructural Engineer

Membership of professional bodies:
1985 The Royal Aeronautical Society, Fellow (since 1996)
1985 The Institution of Structural Engineers, Fellow (since 2014)
1985 Engineering Council, Chartered Engineer
1991 The American Institute of Aeronautics & Astronautics, Associate Fellow

Selected Publications:
F. W. Williams and J. R. Banerjee, “Accurately computed modal densities for panels and cylinders, including corrugations and stiffeners”, Journal of Sound and Vibration, Vol. 93, No. 4, April 1984, pp. 481-488
Banerjee JR (1998) Free vibration of axially loaded composite Timoshenko beams using the dynamic stiffness matrix method. Comput Struct 69:197–208
F. A. Fazzolari and J. R. Banerjee, “Advances in the dynamic stiffness method for exact buckling analysis of aircraft panels”, DiPaRT Loads & Aeroelastic Workshop, CFMS Advanced Simulation Research Center, Bristol, UK, 13 December, 2012
Fazzolari F.A., Banerjee J.R., Boscolo M.: Buckling of composite plate assemblies using higher order shear deformation theory—an exact method of solution. Thin Walled Struct. 71, 18–34 (2013)