# ABOUT THE LECTURER (Biswa Nath Datta)

Biswa Nath Datta is a Professor of Mathematical Sciences, an Adjunct Professor of Electrical and Mechanical Engineering and a Distinguished Research Professor at *Northern Illinois University.*

Professor Datta held visiting professorship at *University of Illinois* at Urbana-Champaign, *Pennsylvania State University*, *University of California* at San Diego, *State University of Campinas*, Brazil, as well as at many other universities and research laboratories around the world, including the *Boeing Company.* He also held short term distinguished visiting professorship at *University of Adelaide*, Australia, *Universidad Catolica del Norte*, Chile, and *Universidad Polytecnica de Valencia*, Spain, *Tsing Hua University and National University of Taiwan* , Taiwan, and others.

His research interests are interdisciplinary, blending linear and numerical linear algebra with control and systems theory. He was elected to a *Fellow* of IEEE in 2000 for his interdisciplinary contributions. He was elected as an *"Academician"* by the Academy of Nonlinear Sciences in 2002.

Professor Datta is the author of more than 100 interdisciplinary research papers and two books entitled **Numerical Linear Algebra and Applications**, published in 1995, and **Numerical Methods for Linear Control Systems Design and Analysis**, published in 2003. He has served in the past or is presently serving on the editorial board of premier journals such as *SIAM J. Matrix Analysis and Applications, Linear Algebra and its Applications (special editor), Numerical Linear Algebra with Applications, the Journal of Mathematical Systems, Estimation, and Control, and several others..* He is the Founding Editor and the Editor-in-Chief of the annual series : *Applied and Computational Control, Signals, and Circuits.* He has also edited four interdisciplinary books and several interdisciplinary special issues of some of the above journals. He is also the co-author of the control engineering software package, entitled *"Control System Professional - Advanced Numerical Methods,"* Wolfram Research inc., 2003 and the author of the MATLAB-based software package,*MATCOM* .

He has delivered numerous invited talks and short courses/ workshops at international conferences and many colloquium talks at universities and research laboratories around the world.

Professor Datta served as the *vice-Chair* of the *SIAM Linear Algebra Activity Group*, as the *Chairman* of the of the committee of the SIAM Prize for the Best Applied Linear Algebra Paper and a member of the Hans Schneider Prize Committee in Linear Algebra.

He also organized and chaired or co-chaired the *AMS -IMS-SIAM Joint Summer Research Conference on Linear Algebra and Its Role in Systems Theory*, 1984 ; the *SIAM Conference on Linear Algebra in Signals, Systems, and Control*, 1986, 1988, 1993, 2001; *Mathematical Theory of Networks and Systems(MTNS)*, 1996, and numerous interdisciplinary invited special sessions on control, systems, and signal processing at several AMS, SIAM, IEEE, International Federation of Automatic Control, and MTNS conferences. Professor Datta has delivered short courses, workshops and tutorials on "Numerical Methods and Software for Computer-Aided Control Systems Design and Analysis" at major conferences sponsored by SIAM, IEEE, MTNS, and IFAC.