

YAAKOV OSHMAN received his B.Sc. (*summa cum laude*) and D.Sc. degrees, both in Aeronautical Engineering, from the Technion—Israel Institute of Technology, Haifa, Israel, in 1975 and 1986, respectively.

From 1975 to 1981 he was with the Israeli Air Force, where he worked in the areas of structural dynamics and flutter analysis and flight testing. In 1987 he was a Research Associate at the Department of Mechanical and Aerospace Engineering of the State University of New York at Buffalo, where he was, in 1988, a Visiting Professor. Since 1989 he has been with the Department of Aerospace Engineering at the Technion—Israel Institute of Technology, where he is presently a Professor, and incumbent of the Louis and Helen Rogow Chair in Aeronautical Engineering. Between the years 2013—2014 Prof. Oshman served as Dean of Aerospace Engineering at the Technion—Israel Institute of Technology.

Dr. Oshman is a member of the Technion's Asher Space Research Institute. He headed the Technion's Philadelphia Flight Control Laboratory (1993 – 1996). During the 1996/7 and 1997/8 academic years he spent a sabbatical with the Guidance, Navigation and Control Center of NASA's Goddard Space Flight Center, where he worked in research and development of spacecraft attitude estimation algorithms. He has consulted to RADA Electronic Industries Ltd., RAFAEL Advanced Defense Systems Ltd., Israeli Ministry of Defense, and Israel Aerospace Industries (MBT Missile Division). His research has been supported by the Israeli Aircraft Industries, the Israeli Ministry of Defense, the U.S. Air Force Office of Scientific Research (AFOSR), RAFAEL Advanced Defense Systems Ltd., and the Israeli Science Foundation (ISF), as well as by various Technion research grants.

Dr. Oshman served as President of the Israeli Association for Automatic Control, a national member organization of the International Federation of Automatic Control (IFAC), between 2003—2008. He was a member of the national board of the Israeli Society of Aeronautics and Astronautics between 2004—2009. He was a member of the AIAA Guidance, Navigation, and Control Technical Committee between 2002—2008, an International Advisor (member of the editorial board) of the *AIAA Journal of Guidance, Control and Dynamics* between 2002—2009, and a (founding) Technical Editor for Guidance and Control Systems for the *IEEE Transactions on Aerospace and Electronic Systems* between 2005—2011. He was a member of the Board of Governors of the IEEE Aerospace and Electronic Systems Society (AESS) between 2008—2010, and serves as Chair of the Israeli Chapter of IEEE/AESS since 2010. He has served in numerous Technion positions.

Dr. Oshman's research interests are in advanced estimation, tracking, information fusion and control methods and their applications in aerospace guidance, navigation, and control systems, including structural estimation and control, flow control, and health monitoring/fault detection and isolation (FDI) systems. He has published over 150 journal and conference papers and book chapters, and numerous technical reports in these areas. He is a co-author of the paper that was awarded the Best Paper Award of the 2002 AIAA *Astrodynamics Specialist Conference*, and a co-author and advisor of the paper that was awarded the Best Paper Award of the 2004 AIAA *Guidance, Navigation and Control Conference*. He received the Technion's *Raymond and Miriam Klein Research Prize* for his research on enhanced air-to-air missile tracking using target orientation observations (2002), the Technion's *Meir Hanin Research Prize* for his work on spacecraft angular velocity estimation (2004), which has been put to use in the Israeli AMOS-2 communication satellite, and multiple Technion awards for outstanding teaching. He has been on the program committees of over a dozen international conferences.

Dr. Oshman is a *Fellow* of the American Institute of Aeronautics and Astronautics (AIAA), and a *Fellow* of the Institute of Electrical and Electronics Engineers (IEEE).