George Stephanopoulos
Biosketch

George Stephanopoulos is the A.D. Little Emeritus Professor of Chemical Engineering at the Massachusetts Institute of Technology (MIT), and holds a joint Professorship in the School for the Engineering of Mater, Energy, and Transport, and the School of Molecular Sciences at the Arizona State University (ASU).

He received a Diploma of Chemical Engineering from the National Technical University of Athens (NTUA), Greece, a M.Eng. degree from McMaster University, and a Ph.D. degree from the University of Florida. He taught at the University of Minnesota, NTUA, MIT, and ASU. He also served as the Chief Technology Officer and member of the Board of the Mitsubishi Chemical Corporation.

He is a member of the National Academy of Engineering; fellow of the American Academy of Arts and Sciences, and he received an Honorary Doctor of Science from McMaster University. From the American Institute of Chemical Engineers (AIChE), he received the following honors: Colburn, Walker and Founders Awards; Institute Lecture; the Computing in Chemical Engineering Award, and was named as one of the 100 Chemical Engineers of Modern Era. He has also received the Ragazzini Award of the American Automatic Control Council; the Curtis McGraw Award of the American Society of Engineering Education; and the Camille and Henry Dreyfus Teacher and Scholar Award.

He has presented over 50 honorary lectures at various universities, research institutes, and industrial corporations, and more than 250 invited and plenary lectures at international conferences.

He is the author of “Chemical Process Control: An Introduction to Theory and Practice”, published by Prentice Hall in 1984, “Chemical and Biological Process Dynamics and Control”, published by Tetractys Editions in 2025, and co-author of two volumes on “Intelligent Systems in Process Engineering”, published by Academic Press in 1995. He is currently completing a book, titled “The Control Theoretic Framework of Machine Intelligence”.

He has published over 250 papers in process systems engineering, including: process control; control of nanoscale processes; process design and optimization; synthesis of molecular systems; product design; process monitoring and diagnosis; and process operations planning.