KEN BUDINSKI is the technical director of Bud Labs, a ten-year old company that designs and builds friction and wear testers and conducts tribological (friction, wear, erosion, and lubrication) studies for clients. He is Chairman of the ASTM Subcommittee G02.50 on Friction and he previously served as Chair of the G02 Committee on Wear and Erosion. He is a member of the ASTM Committee B08 on Metallic and Inorganic Coatings and a member of the steering committee for the Biannual International Wear of Materials Conference. His duties at Bud labs include test and machine design, and analysis/interpretation of client test results.

Mr. Budinski has a BS in Mechanical Engineering from General Motors Institute (1961) and an MS in Metallurgical Engineering from Michigan Technological University (1963). He worked at Rochester Products Division of GM from 1957 to 1962, starting as a cooperative engineering student and ending as a manufacturing development engineer specializing in die casting. Upon completing graduate studies at Michigan Tech he joined the Materials Engineering Laboratory of the Kodak Park Division of Eastman Kodak Company as a metallurgist. Wear problems at this plant started his interest in wear testing and wear research. This plant made photographic films and the sensitive nature of the products meant that production machines had to run at high speed with no lubricants that could contaminate the film. The films sliding on themselves and other surfaces also required many tribological advances to control friction and prevent scratching. The net result of Kodak's unusual wear and friction requirements led Mr. Budinski to learn as much as possible about tribology and he established one of the most comprehensive tribology labs in the US. His tribology studies were key to many products and to many manufacturing operations. He retired from Kodak in 2002 as Technical Associate and immediately joined Bud Labs as Technical Director.

He became a member of ASTM (G02) in 1972 and participated in most of the interlaboratory studies for developing the G02 Wear and Friction test methods. He has lectured on wear and friction in countless courses. He taught Engineering Materials at Rochester Institute of Technology and Monroe Community College. He participated in a National Science Foundation technology transfer mission to China in 1983 and another to Belarus and Poland in 1996. He shared his materials engineering experience by authoring and coauthoring eight editions of a textbook titled *Engineering Materials: Properties and Selection* (Prentice Hall). He authored the very first book on Surface Engineering (*Surface Engineering for Wear Resistance,* Prentice Hall); he also authored teaching texts on technical writing (*Engineer's Guide to Technical Writing,* ASM) and technical presentations (*Guide to Preparing and Delivering Technical Presentations,* ASTM International). He has presented more than 100 papers at technical conferences and has authored more than 50 papers in refereed journals.

Mr. Budinski is a Fellow in ASTM International, ASM International, and the Rochester Engineering Society. He has won many awards for his technical achievements including "Rochester Engineer of the Year" (2000). His most significant contribution to engineering and science has been sharing his research and learning in tribology and engineering materials. This book is a continuation of this sharing.