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## About the Author

Professor K.T. Chau, Ph.D., is the chair professor of geotechnical engineering in the Department of Civil and Environmental Engineering at the Hong Kong Polytechnic University. He obtained his Ph.D. in theoretical and applied mechanics from Northwestern University in Chicago and an executive certificate from the Graduate School of Business of Stanford University. Dr. Chau is a fellow of the Hong Kong Institution of Engineers (HKIE), the chairman of the Elasticity Committee (2009–2012) of the Engineering Mechanics Institute (EMI) of ASCE, and chairman of the TC103 of the ISSMGE. His research interests have included geomechanics and geohazards, including bifurcation and stability theories in geomaterials, rock mechanics, fracture and damage mechanics in brittle rocks 3-D elasticity, earthquake engineering and mechanics, landslides and debris flows, tsunami and storm surges, and rockfalls and dynamic impacts, seismic pounding, vulnerability of tall buildings with transfer systems, and shaking table tests. He is the author of more than 100 journal papers and 200 conference publications.

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A multidisciplinary field, encompassing both geophysics and civil engineering, geomechanics deals with the deformation and failure process in geomaterials such as soil and rock. Although powerful numerical tools have been developed, analytical solutions still play an important role in solving practical problems in this area. *Analytic Methods in Geomechanics* provides a much-needed text on mathematical theory in geomechanics, beneficial for readers of varied backgrounds entering this field.

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The author gives concise explanations of each subject area, using a step-by-step process with many worked examples. He strikes a balance between breadth of material and depth of details, and includes recommended reading in each chapter for readers who would like additional technical information. This text is suitable for students at both undergraduate and graduate levels, as well as for professionals and researchers.

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