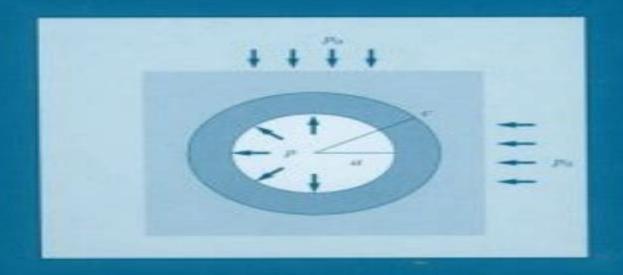
# Cavity Expansion Methods in Geomechanics

Hai-Sui Yu



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## **Cavity Expansion Methods In Geomechanics**

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#### **Cavity Expansion Methods In Geomechanics:**

Cavity Expansion Methods in Geomechanics Hai-Sui Yu, 2000-09-30 Cavity expansion theory is a simple theory that has found many applications in geotechnical engineering In particular it has been used widely to analyse problems relating to deep foundations in situ testing underground excavation and tunnelling and wellbore instability Although much research has been carried out in this field all the major findings are reported in the form of reports and articles published in technical journals and conference proceedings To facilitate applications and further development of cavity expansion theory there is a need for the geotechnical community to have a single volume presentation of cavity expansion theory and its applications in solid and rock mechanics. This book is the first attempt to summarize and present in one volume the major developments achieved to date in the field of cavity expansion theory and its applications in geomechanics Audience Although it is intended primarily as a reference book for civil mining and petroleum engineers who are interested in cavity expansion methods the solutions presented in the book will also be of interest to students and researchers in the fields of applied mechanics and **Cavity Expansion Methods in Geomechanics** Hai-Sui Yu, 2014-03-14 Cavity expansion theory mechanical engineering is a simple theory that has found many applications in geotechnical engineering In particular it has been used widely to analyse problems relating to deep foundations in situ testing underground excavation and tunnelling and wellbore instability Although much research has been carried out in this field all the major findings are reported in the form of reports and articles published in technical journals and conference proceedings To facilitate applications and further development of cavity expansion theory there is a need for the geotechnical community to have a single volume presentation of cavity expansion theory and its applications in solid and rock mechanics This book is the first attempt to summarize and present in one volume the major developments achieved to date in the field of cavity expansion theory and its applications in geomechanics Audience Although it is intended primarily as a reference book for civil mining and petroleum engineers who are interested in cavity expansion methods the solutions presented in the book will also be of interest to students and researchers in the fields of applied mechanics and mechanical engineering **Pressuremeters in Geotechnical Design** B.G. Clarke, 2022-11-30 The pressuremeter is a versatile piece of ground investigation equipment that can be used to test any type of soil or rock in situ It quantifies in situ stress stiffness strength and permeability the essential properties needed to design geotechnical structures. The results are used in pressuremeter specific design methods empirical design methods and numerical analyses This reference book covers the types of pressuremeter and the control equipment methods of installation test procedures methods of analysis including direct and indirect methods of interpretation and application in design This is supported by an exemplar specification for field operations with the interpretation of the results Engineers are given enough detail to apply the results confidently This comprehensive and thorough discussion of pressuremeter testing in geotechnical design draws on over forty years experience in geotechnical engineering It is essential for professional and academic

engineering geologists and geotechnical civil and structural engineers involved in ground investigation and geotechnical design <u>Databases for Data-Centric Geotechnics</u> Kok-Kwang Phoon, Chong Tang, 2024-12-20 Databases for Data Centric Geotechnics forms a definitive reference and guide to databases in geotechnical and rock engineering to enhance decision making in geotechnical practice using data driven methods This first volume pertains to site characterization The opening chapter presents an in depth analysis of site data attributes including the establishment of a new taxonomy of site data under 4S site generalizations spatial features sampling characteristics and smart data to provide a novel agenda for data driven site characterization Type 3 machine learning methods disruptive value are possible as sensors become more pervasive and more intelligent A comprehensive overview of site characterization information is also presented with a focus on its availability coverage value to decision making and challenges The remaining 13 chapters cover databases of soil and rock properties and the application of these databases to rock socket behavior rock classification settlement on soft marine clays permeability of fine grained soils and liquefaction among others The databases were compiled from studies undertaken in many countries including Austria Australia Brazil Canada China France Finland Germany India Iran Japan Korea Malaysia Mexico New Zealand Norway Singapore Sweden Thailand the United Kingdom and the United States This volume on site characterization is a companion to the volume on geotechnical structures Databases for Data Centric Geotechnics represents the most diverse and comprehensive assembly of database research in a single publication consisting of two volumes to date It follows from Model Uncertainties for Foundation Design also published by CRC Press and suits specialist geotechnical engineers Foundation Engineering Analysis and Design An-Bin Huang, Hai-Sui researchers and graduate students Yu,2017-12-06 One of the core roles of a practising geotechnical engineer is to analyse and design foundations This textbook for advanced undergraduates and graduate students covers the analysis design and construction of shallow and deep foundations and retaining structures as well as the stability analysis and mitigation of slopes It progressively introduces critical state soil mechanics and plasticity theories such as plastic limit analysis and cavity expansion theories before leading into the theories of foundation lateral earth pressure and slope stability analysis On the engineering side the book introduces construction and testing methods used in current practice Throughout it emphasizes the connection between theory and practice It prepares readers for the more sophisticated non linear elastic plastic analysis in foundation engineering which is commonly used in engineering practice and serves too as a reference book for practising engineers A companion website provides a series of Excel spreadsheet programs to cover all examples included in the book and PowerPoint lecture slides and a solutions manual for lecturers Using Excel the relationships between the input parameters and the design and analysis results can be seen Numerical values of complex equations can be calculated quickly non linearity and optimization can be brought in more easily to employ functioned numerical methods And sophisticated methods can be seen in practice such as p y curve for laterally loaded piles and flexible retaining structures and methods of slices for slope stability analysis

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The Pressuremeter and Its New Avenues Gerard Ballivy,1995-01-01 Pressuremeter testing activities are of great interest for scientists and engineers concerned with the mechanical behaviour of civil engineering materials The proceedings include the first Menard Lecture presented by Professor Branko Ladanyi and 57 technical papers from 16 countries They are related to the application of pressuremeter testing to granular and alluvial soils clay rock concrete and permafrost and geotechnical design It also includes a session on technological developments in the design fabrication and installation of pressuremeters

Energy Geotechnics Frank Wuttke, Sebastian Bauer, Marcelo Sanchez, 2016-12-01 Energy Geotechnics includes 97 technical papers presented at the 1st International Conference on Energy Geotechnics ICEGT 2016 Kiel Germany 29 31 August 2016 The contributions provides significant advances and critical challenges facing the areas of fundamentals constitutive and numerical modelling testing techniques and energy geotechnics applications Energy Geotechnics contains seven regular sessions and six minisymposia with contributions on discrete and continuum based modelling as well as investigations based on experimental studies at various scales The papers on discrete and continuum based modelling examine the behaviour of gas hydrate sediments cyclic and Themo Hydro Mechanical T H M modelling of energy piles non linear behaviour of energy geo storage and geo structures deformation of geomaterials modelling of borehole heat exchangers and energy walls analysis of hydraulic fracturing and discontinuities in reservoirs engineering problems involving gas hydrates sediments and modelling of environmental impact of energy geotechnical processes Canadian Geotechnical Journal, 2012 Canadian Geotechnical Journal National Research Council Canada, 1998 Prediction. Analysis and Design in Geomechanical Applications Giovanni B. Barla, Marco Barla, 2005 **Proceedings of the 5th** International Conference on Transportation Geotechnics (ICTG) 2024, Volume 4 Cholachat Rujikiatkamjorn, Jianfeng Xue, Buddhima Indraratna, 2024-10-24 This book presents select proceedings of the 5th International Conference on Transportation Geotechnics ICTG 2024 It includes papers on ground improvement methodologies dynamics of transportation infrastructure and geotechnical intricacies of mega projects It covers topics such as underground transportation systems and heights of airfields and pavements This book discusses diverse thematic landscapes offering profound explorations into sensor technologies data analytics and machine learning applications. The publication highlights advanced practices latest developments and efforts to foster collaboration innovation and sustainable solutions for transportation infrastructure worldwide The book can be a valuable reference for researchers and professionals interested in transportation geotechnics

Geotechnical and Geophysical Site Characterization António Viana da Fonseca, Paul W. Mayne, 2004 Soils and rocks are complex natural geomaterials that exhibit a wide range in strength stiffness state of stress structure and flow characteristics Geotechnical Geophysical Site Characterization provides eleven keynote state of the art papers including the Mitchell Lecture A total selection of 219 technical papers and theme reports address methods of site exploration related to

ground exploration for civil engineering and construction works These two volumes represent a collection of experience knowledge regarding various methods of in situ testing geophysical techniques innovative devices improved interpretation algorithms and statistical treatment of field data for the characterization of soils rocks and other geomaterials The papers represent the written records and documented efforts from international experts from industry academe and government who participated in the Second International Conference on Site Characterization held in Porto Portugal on September 20 22 2004 Topics include the utilization of rotary drilling sampling and coring techniques Of particular interest is the variety of in situ tests including standard penetration cone penetration flat dilatometer pressuremeter vane shear piezocone dynamic probes and specialized tools as well as geophysical approaches resistivity surveys surface waves crosshole downhole electromagnetic conductivity and ground penetrating radar A careful and proper site evaluation is required in the analysis and design of new structures construction monitoring and forensic studies that require remediation Many of the contributions relate to case studies of projects that involve shallow foundations drilled shafts pilings slope stability excavations earth dams tunnels and mining Several papers discuss a combined approach using multiple methods and or complementary set of geotechnical geophysical tests to ascertain the characteristics of the ground back cover

Numerical Methods in Geomechanics, Nagoya 1985 Yukikazu Itikawa,1985 Site Investigation Practice Alfred Brian Hawkins, Geological Society of London, 1986 Géotechnique, 2008 Radial Preloading for Ground Improvement Emre Biringen, 2006 Soil Behavior and Soft Ground Construction American Society of Civil Engineers. Geo-Institute, 2003 Contains state of the art papers covering fundamental areas of soft ground mechanical behavior geochemistry and links between the two In addition there are several papers on state of the art practice historical overviews and case studies in soft ground construction CPT-based Probabilistic Assessment of Seismic Soil Liquefaction Initiation Robb Eric Shedwick Moss, 2003

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