1. Record Nr. UNINA9910793780503321 Autore Schranz Fabian Titolo Applications and developments of Barodesy / / Fabian Schranz Pubbl/distr/stampa Berlin:,: Logos Verlag Berlin GmbH,, [2019] ©2019 **ISBN** 3-8325-8905-8 Descrizione fisica 1 online resource (220 pages) Advances in geotechnical engineering and tunnelling;; 24 Collana Disciplina 624.15136 Soggetti Soil mechanics - Mathematical models Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia PublicationDate: 20180401 Note generali Sommario/riassunto Long description: Barodesy is a constitutive model for granular materials such as sand and clay. It is based on the asymptotic behaviour of granular media at a constant deformation rate. In this work the existing sand version of Barodesy is improved. For this purpose, the underlying scalar equations are simplified using different concepts from soil mechanics. The improved version is also compared with laboratory tests and different elastoplastic and hypoplastic constitutive relations. Also the stability of slopes and advanced stress

these models.

paths such as the rotation of the princple stresses are investigated with