

1. Record Nr.	UNINA9910789314003321
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Titolo	Granular media : between fluid and solid // Bruno Andreotti, Yoel Forterre, Olivier Pouliquen [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-316-09073-6 1-107-25041-2 1-107-25124-9 1-139-54100-5 1-107-24792-6 1-107-24875-2 1-107-24958-9 1-107-03479-5
Descrizione fisica	1 online resource (viii, 462 pages) : digital, PDF file(s)
Classificazione	SCI055000
Disciplina	620/.43
Soggetti	Granular materials - Fluid dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Foreword""; ""1 Introduction""; ""1.1 Definition and examples of granular media""; ""1.2 Between solid and liquid: what makes granular matter so difficult to describe?""; ""1.3 A sketch of the book""; ""2 Interactions at the grain level""; ""2.1 Solid contact forces""; ""2.1.1 Elastic contact: the Hertz law""; ""2.1.2 Solid friction""; ""2.1.3 Collision between two particles""; ""2.2 Cohesion forces""; ""2.2.1 Electrostatic effects""; ""2.2.2 Adhesion""; ""2.2.3 Capillary cohesion""; ""2.2.4 Real surfaces and the role of rugosity""; ""2.2.5 Solid bridges""; ""2.3 Forces in a flow""""2.3.1 The force on a grain in a uniform and steady flow""; ""2.3.2 Force in unsteady and inhomogeneous flows""; ""2.3.3 Hydrodynamic forces between grains: lubrication""; ""3 The granular solid: statics and elasticity""; ""3.1 Granular packings""; ""3.1.1 Volume fraction ""; ""3.1.2 Monodisperse packings of spheres ""; ""3.1.3 Packings of spheres of different sizes""; ""3.1.4 Compaction ""; ""3.2 Forces in a granular packing""; ""3.2.1 The role of friction and isostaticity""; ""3.2.2 Force distribution""; ""3.3 From forces to stresses""

3.3.1 Definition of stresses in a granular medium
3.4 Stress distribution in static configurations
3.4.1 Stress distribution in a silo: Janssen's model
3.4.2 Stresses under a sand pile
3.5 Elasticity
3.5.1 Elasticity of a one-dimensional chain of beads
3.5.2 Elastic moduli of a granular packing
3.5.3 The constitutive relation
3.5.4 Acoustics in granular media
4 The granular solid: plasticity
4.1 Phenomenology
4.1.1 The sand pile
4.1.2 The shear cell
4.1.3 The triaxial test
4.2 The different levels of description: a scalar approach
4.2.1 The first level of description: a frictional medium
4.2.2 The second level of description: taking into account variations in the volume fraction
4.2.3 Towards more refined descriptions
4.3 The Mohr-Coulomb model
4.3.1 The yield criterion
4.3.2 Applications of the Mohr-Coulomb criterion
4.3.3 Generalization in three dimensions: the yield surface
4.3.4 Plastic deformations
4.3.5 Conclusions about the Mohr-Coulomb/Drucker-Prager model
4.4 The role of the volume fraction: critical-state theory
4.4.1 The Drucker-Prager model with dilatancy
4.4.2 The Cam-clay model
4.5 Towards a more refined description of the plasticity
4.5.1 Taking into account elasticity
4.5.2 Towards more complex loading paths
4.5.3 Localization phenomena
4.5.4 Towards granular flows
4.6 Plasticity of cohesive materials
4.6.1 The phenomenology of cohesive granular media
4.6.2 The cohesive Mohr-Coulomb model
4.6.3 The relation between macroscopic and microscopic cohesion
5 Granular gases
5.1 Analogies and differences with a molecular gas

Sommario/riassunto

Sand, rice, sugar, snow, cement... Although ubiquitous in our daily lives, granular media still challenge engineers and fascinate researchers. This book provides the state-of-the-art of the physics of granular media and recent advances in the field. The book presents the fundamental properties of granular materials: interactions between grains; solid, liquid and gaseous behaviours; coupling with a fluid; and sediment transport and formation of geological structures. Descriptions of the phenomena combine qualitative and formal arguments, coming from areas as diverse as elasticity, plasticity, statistical physics, fluid mechanics and geomorphology. Many examples of the astonishing behaviours of granular media are presented, including avalanches, segregation, dune song and quicksand. This book is ideal for graduate students and researchers in physics, applied mathematics and engineering.

2. Record Nr.	UNINA9910139649803321
Titolo	Modality and mood in romance : modal interpretation, mood selection, and mood alternation // edited by Martin G. Becker and Eva-Maria Remberger
Pubbl/distr/stampa	Berlin, : De Gruyter, 2010
ISBN	1-283-16552-X 9786613165527 3-11-023434-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (251 p.)
Collana	Linguistische Arbeiten, , 0344-6727 ; ; 533
Classificazione	ET 470
Altri autori (Persone)	BeckerMartin G RembergerEva-Maria
Disciplina	440/.045 440.0456
Soggetti	Modality (Linguistics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Frontmatter -- Table of contents -- Modality and Mood in Romance: An introduction -- I. Modal interpretation -- Modal readings of sentence connectives in German and Portuguese -- 'Modal uses' of the Italian imperfetto and the Spanish imperfecto: a comparison -- Modal non-finite relatives in Romance -- Epistemic modality and evidentiality and their definition on a deictic basis -- Where mood, modality and illocution meet: the morphosyntax of Romance conjectures -- II. Mood selection and mood alternation -- Modality, context change potential and mood selection in European Portuguese -- On the (un)stability of mood distribution in Romance -- Grammaticalization and language comparison in the Romance mood system -- Principles of mood change in evaluative contexts: the case of French -- Backmatter
Sommario/riassunto	Dieser Sammelband enthält eine Auswahl von Forschungsbeiträgen, die auf dem 30. Deutschen Romanistentag 2007 in Wien innerhalb der Sektion "Modus und Modalität in den romanischen Sprachen" vorgestellt wurden. Dieser Titel nahm Bezug auf Palmers bekannte Monographie Mood and Modality, wobei für die Publikation nun die Reihenfolge umgekehrt und die Modalität als erstes Konjunkt

vorangestellt wird, da sie als fundamentale Kategorie Ausgangspunkt der wissenschaftlichen Betrachtung sein soll. Die untersuchten Sprachen umfassen das Portugiesische, Italienische, Spanische, Rumänische, Katalanische und Französische. Der erste Teil des Bandes befasst sich mit den Interpretationsmöglichkeiten von Modalität sowohl einzelsprachlich als auch vergleichend und berücksichtigt dabei insbesondere ihre Beziehungen zur Kategorie Tempus, zu Satzkonnectoren, nicht-finiten Relativsätzen, Evidentialität und Epistemizität sowie zur Illokution. Der zweite Teil stellt Analysen einzelsprachlicher Phänomenbereiche der Modusselektion und Modusalternation vor. Alle Beiträge diskutieren den kategoriellen Status und die semantischen Effekte von Modalität und Modus sowie deren Wechselbeziehungen unter Bezugnahme auf eine Vielfalt neuerer theoretischer Ansätze.
