

# Modèles continus pour les structures rocheuses discontinues

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## Résumé

On présente un modèle continu de Cosserat pour les structures de blocs rocheux. L'introduction d'une rotation de Cosserat et de couples de contraintes permet de prendre en compte la rotation individuelle des blocs et leur rigidité en flexion. On montre que le domaine de validité de cette homogénéisation est étendu au cas de structures dont les dimensions sont au faible multiple de la taille des blocs. Par ailleurs différents modes de plastification par glissement inter-blocs ou pivotement des blocs sont introduits dans un modèle de plasticité multicritères. Ce modèle est illustré par l'étude de la réponse dynamique d'une structure de maçonnerie et par deux exemples de géotechnique, la stabilité d'une fondation souple et la stabilité d'une pente dans un massif constitué de blocs rocheux.

Mots-clés : roches fracturées, stabilité des pentes, homogénéisation, milieux de Cosserat.

# Continuous models for discontinuous rock structures

## Abstract

The discontinuous structure of blocky rock is approximated by an equivalent Cosserat continuum. This implies the introduction of couple stresses and internal rotations which model the relative rotations between blocks and the bending stiffness of the blocks. It is shown that the domain of validity of the homogenisation is extended to the case of structures with few blocks. The advantage of the Cosserat homogenisation for blocky structure is also that various failure modes such as inter-block slip and block tilting can be easily described through a multi-criteria plasticity model. The model is illustrated by the analysis of the dynamic response of a masonry structure and by two examples of soft foundation and slope stability in blocky rock.

Key words : jointed rock, slope stability, homogenisation, Cosserat medium.

*NDLR:* Les discussions sur cet article sont acceptées jusqu'au 30 juin 2002.

# Modegravele Unification De Vitesse Uvm

**Jose Leal**



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**Modle Unification De Vitesse Uvm** Jose Leal,2016-11-25 Le mod le de la vitesse f d rateur affect e par les dimensions tout est en mouvement et ce qui est pas dans l univers tente d expliquer les ph nom nes connexes qui sont sur le mouvement et qui sont touch s par la mati re l espace et le temps en fonction de votre vitesse tablir un niveau de mod le l chelle consid rant que la r f rence est la dimension temporaire de l espace d crit dans leur vitesse r elle selon l espace sachant que tout ce que nous savons est constamment en mouvement nous devons aller de ce que nous savons et comprendre l inconnu et nous ne comprenons pas est un mod le th orique qui peut accueillir th ories math matiques et les formules qui sont en cours d utilisation accept es et cr er des formules ou des th ories atteindre ce mod le une grande partie de ce qui est dit ici est th orique et jette les bases faire un pont o les th ories que nous sommes connect s et que leur r p tabilit expliquent pour nous ce qui se passe et cela nous aidera trouver des moyens d expliquer des ph nom nes d ordre physique chimique biologique magn tiques lectriques et de lien social est ici sur la terre comme l ext rieur de celui ci il nous affecte comme tant dans une moyenne constante de notre point de vue microscopique expliquant qu un changement peut nous conduire perdre notre sens constant que nous avons actuellement

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