



Granular Flows

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Short description of the lecture:

Flowing granular material is a generic form of many natural and industrial phenomena. Examples include blown sand, river and coastal sediment transport, landslides and avalanches, pneumatic transport of coal, pharmaceutical powders, and various construction materials. In this course we establish the governing equations, construction of constitutive relations, canonical solutions, and numerical methods for deriving complex stress and strain rate relationship. Some practical applications will be given.

Contents:

1. Examples of granular flows and governing equations
2. Construction of constitutive equations
3. Canonical solutions of some typical simple flows
4. Complications of particle-particle interactions
5. Numerical methods for deriving constitutive relations
6. Complex constitutive laws
7. Applications.

Terminy wykładów			
Data	Dzień tyg.	Godzina	Sala
2015-08-31	Pn	9.15-12.00	Hydro P1
2015-09-01	Wt	9.15-12.00	Hydro P1
2015-09-02	Śr	9.15-12.00	Hydro P1
2015-09-03	Cz	9.15-12.00	Hydro P1
2015-09-04	Pt	9.15-12.00	Hydro P1