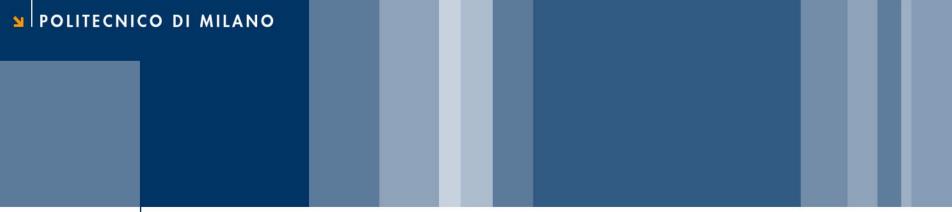


Politecnico di Milanosince 1863...





Machine and Vehicle Design: Master Thesis presentation

POLITECNICO DI MILANO, ITALY DIPARTIMENTO DI MECCANICA





TITLE: Recycled, self-sensing composite material for battery pack

RESEARCH ACTIVITIES: Within a PRIN project the student will get involved in a cutting-edge project on studying and developing a new carbon-fiber, epoxy-resin recycled composite, doped with a piezoelectric powder for selfsensing purposes. A design for a battery pack shall also be delivered.

METHODOLOGY: experimental and numerical.

DURATION: 6-9 months

CONTACTS: roberto.palazzetti@polimi.it

POSSIBLE COLLABORATIONS: DAER, PoliMi DIN, UniBo (Bologna)

Microindentation technique

TITLE: Characterization of mechanical properties of materials by means of microindentation technique

RESEARCH ACTIVITIES:

1. Investigation on microindentation technique combined with reverse engineering to acquire mechanical properties of material

2. Identification of test cases in order to compare results with consolidated approaches

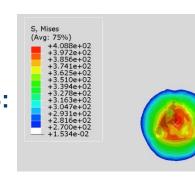
METHODOLOGY: Analytical - Numerical – experimental

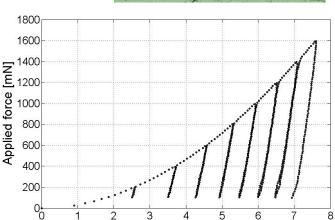
DURATION: 9 months

CONTACTS:

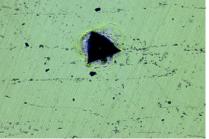
marco.giglio@polimi.it andrea.manes@polimi.it sina.amiri@polimi.it

POSSIBLE COLLABORATIONS: University of Columbia (USA)





Indentation depth [micro-meter]



POLITECNICO DI MILANO

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