



SEMINAR - סמינר

הנך מוזמנת להרצאה סמינריונית של הפקולטה להנדסת מכונות, שתתקיים ביום ב' 23.05.2016 (טו' באייר, תשע"ו), בבניין דן-קאהן, קומה 0, אודיטוריום 1, 14:30.

ירצה:

Prof. K. R. Rajagopal

Department of Mechanical Engineering
Texas A&M University
College Station, TX-77843

על הנושא:

**The mechanics and mathematics of bodies described by implicit
constitutive equations**

The seminar will be given in English

להלן תקציר ההרצאה:

After discussing the need for implicit constitutive relations to describe the response of both solids and fluids, I will discuss applications wherein such implicit constitutive relations can be gainfully exploited. It will be shown that such implicit relations can explain phenomena that have hitherto defied adequate explanation such as fracture and the movement of cracks in solids, the response of biological matter, and provide a new way to look at numerous non-linear phenomena exhibited by fluids. They provide a totally new and innovative way to look at the problem of Turbulence. It also turns out that classical Cauchy and Green elasticity are a small subset of the more general theory of elastic bodies defined by implicit constitutive equations.

מארח: פרופ' מיילס רובין

בברכה,

שפוא'א אא יפ אלת
מרכז הסמינרים