

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 5 באפריל, 2022

בשעה 14:30 – 15:30

בMath-101

ההרצאה

Fuel Polydispersed of Dynamics the About

חינתן על-ידי

(BGU) Hareli Shlomo

תקציר: A poly disperse fuel spray consist of thousands of droplets in various shapes and volumes. The combustion process of a poly disperse fuel is described by the PSD (Particle Size Distribution) function. The PSD is a discrete function of droplet size. Models of combustion process which accounts for each droplet are used to describe the combustion process. As a result, a considerable amount of computations are required as they are not practicable. The PSD is used to describe the combustion process adequately. We propose a simplified model which allow us to use continuous distribution functions (theoretical or experimental PSD) to approximate any PSD. The PSD is dependent on time. The PSD is more accurately approximated by previous approximations. We investigate the dynamics of poly disperse fuel.

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