



INTISARI

MENUJU MEKANIKA MULTINOMIAL

oleh

MUJIRIN
09/281006/PA/12355

Telah dibangun beberapa prinsip dasar usulan mekanika yang merupakan pendekatan teori peluang terhadap mekanika Newton. Ruang konfigurasi sistem berupa ruang jaring-jaring dan ruang fasenya berupa ruang dengan koordinat fungsi-fungsi peluang basis dan kecepatan langkah. Besaran-besaran fisis seperti gaya, momentum, dan energi mekanik diturunkan dari posisi rerata partikel. Mekanika ini secara alamiah memiliki ruang peristiwa atau σ -aljabar yang bergantung pada suatu besaran tertentu. Selain itu diperkenalkan pengkelasan keacakan suatu fenomena. Salah satu mekanika ini, yakni mekanika trinomial, dicoba untuk memerikan pergerakan sepasang mata uang di pasar uang atau *foreign exchange*.

Kata kunci: mekanika, multinomial, fenomena kompleks, ruang jaring.



ABSTRACT

TOWARD TO MULTINOMIAL MECHANICS

by

MUJIRIN
09/281006/PA/12355

Some basic principles of mechanics has been proposed as probabilistic approach to Newtonian mechanics. The configuration spaces are net spaces and the phase spaces are space with bases probability functinons and step velocity as coordinates. Physical quantities such as momentum, force and mechanical energy are derived from average position. The approach under consideration naturally assumes a σ -algebra which depends on certain quantities as event space. A randomness classification is also introduced. Then, trinomial mechanics, is applied to describe dynamics of a pair of currencies on foreign exchange.

Keywords : mechanics, multinomial, random walk, net space.