



- > MainPage
- > About College
- > Files
- > Researches
- > Courses
- > Favorite Links
- > Our Contacts

Visits Of this Page: 13



Research Details :

Research Title : فضاءات الدوال القياسية و خواصها الهندسية

Descriptipn : A detailed discussion regarding basic concepts and facts of modular spaces is included. Completeness of the modular function space L^p is shown. Several distinguishing features of the modular function ϕ satisfying the ϕ -2-condition are highlighted. A brief description of some geometric properties such as uniform convexity, normal structure and uniform noncompact convexity in modular spaces is given. It is shown that the modular function space L^p satisfies ϕ -a.e. uniform Kadec-Klee property as well as ϕ -a.e. uniform Opial condition. Some variants of the Banach contraction principle for modular function spaces are presented. Fixed point theory for ϕ -nonexpansive mapping using some geometric properties is studied. The existence of fixed points of ϕ -isometries in ϕ -uniformly convex modular spaces is also established

Research Type : Master

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