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A. Carbone

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Abstract: An extension of a result due to Profile [4] is given and a few results are derived as corollaries.

Geni Gupur

SEMIGROUPS METHOD FOR M/G/I QUEUEING SYSTEMS WITH EXCEPTIONAL SERVICES TIME FOR THE FIRST CUSTOMER IN EACH BUSY PERIOD 126-146

Abstract: By using C_0 -semigroup theory of linear operators the existence of a unique nonnegative time-dependant solution of $M/G/I$ queueing system with exceptional service time for the first customer in each busy period is proved.

Rajneesh Kumar, Ranjit Singh And T. K. Chadha

AXISSYMMETRIC PROBLEM IN MICROSTRETCH ELASTIC SOLID 147-164

Abstract: The eight value approach has been employed for the two dimensional axisymmetric problem in microstretch elastic medium. An application of infinite space with concentrated force has been studied. The integral transforms have been inverted by using numerical technique. The displacement component, force stress, couple stress and first moment are obtained and normal displacement has been shown graphically.

M. K. R. S. Veera Kumar

PRE-SEMI-CLOSED SETS 165-181

Abstract: A new class of sets namely, *pre-semi-closed sets* is introduced for topological spaces. This class is properly placed in between the class of semi-preclosed sets and the class of generalized semi-pre-closed sets. Applying pre-semi-closed sets, we introduce and study four new spaces, namely, *pre-semi- $T_{1/2}$ spaces*, *semi-pre- $T_{1/3}$ spaces*, *semi-semi T_b spaces* and *pre-semi- $T_{3/4}$ spaces*. We Characterize pre-semi- $T_{1/2}$ spaces. We proved that the dual of the class of pre-semi- $T_{1/2}$ spaces to the class of semi-pre- $T_{1/2}$ is the class of semi-pre- $T_{1/3}$ spaces. We also introduce and study pre-semi-continuous maps and pre-semi-irresolute maps.

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Abstract: We give sixteen necessary and sufficient conditions for a metric space to be complete.

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GENERALIZATION OF AN INEQUALITY OF OSTROWSKI TYPE AND SOME RELATED RESULTS 189-209

Abstract: We generalize and partially improve an inequality of Ostrowski type. Also, we deduce an analogous inequality of Ostrowski-Chebyshev type and compare it to the previous one. Further, application to the estimation of error bounds for some numerical quadrature rules is considered.

Abstract: Let R be a ring with a unit element and $M(R)$ be the set of square matrices over R . The matrix ordering on R is defined, and then it is shown the matrix ordering on R induces an ordering on epic R -field K . We also define and prove compatibility between matrix valuations and matrix orderings.

P.Vijayaraju And M. Marudai

Abstract: In this paper some results on best approximations and fixed points are proved of which one of them is an extension of a result of Sehgal and Singh. As a consequence we obtain a corollary, which is a generalization of Schauder's fixed point theorem for nonconvex multi-valued continuous mappings.

V. S. S. Yadavalli And M. Botha

Abstract: Two models of intermittently used systems have been studied and for each of these models a Consistent Asymptotic Normal (CAN) estimator, as well as confidence limits for the stationary rate of disappointments have been determined. In model I failures are detected irrespective of the state of the system (i.e, whether it is in a need state or in a no-need state), whereas failures in the case of model 2 can only be detected during a need period for the system.
