ON THE CLASSES OF D–NORMAL OPERATORS AND D–QUASI–NORMAL OPERATORS ON HILBERT SPACE

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Abstract. The purpose of this paper is to introduce some new classes of operators, called \([DN]\), \([nDN]\), \([DQN]\), \([nDQN]\), associated with a Drazin invertible operator using its Drazin inverse. \([nDN]\) and \([nDQN]\) operators extend the notion of \([DN]\) and \([DQN]\) operators, respectively. The relations between these classes and some basic properties of these operators are studied in this study.


Keywords and phrases: Drazin inverse, n-normal operators, quasi-normal operators, n-power quasi-normal operators.

REFERENCES