

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

M. DANA AND R. YOUSEFI

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.

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