

THE G-DRAZIN INVERSES OF SPECIAL OPERATOR MATRICES

HUANYIN CHEN AND MARJAN SHEIBANI*

Abstract. An element a in a Banach algebra \mathcal{A} has g -Drazin inverse provided that there exists $b \in \mathcal{A}$ such that $b = bab$, $ab = ba$, $a - a^2b \in \mathcal{A}^{nil}$. In this paper we give a computational formula for the g -Drazin inverse of operator matrix $\begin{pmatrix} E & I \\ F & 0 \end{pmatrix}$ which was posed by Campbell in the research on singular differential equations.

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