

[Singh, M. K.](#); [Singh, B. B.](#)

On n th order plenary idempotents in a Gonshor genetic algebra. (English) Zbl 0608.17014
Math. Educ. 20, 1-7 (1986).

The plenary powers of an element x in nonassociative algebra are defined as follows

$$x^{[1]} = x, \quad x^{[n+1]} = x^{[n]}x^{[n]}.$$

The authors define an element x to be a plenary idempotent of order n if $x^{[n]} = x$. The main result of the paper gives a sufficient condition for the existence of an r -parameter family of plenary idempotents of order r . The condition is quite technical.

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MSC:

[17D92](#) Genetic algebras

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