

عنوان مقاله:

Identities in $\mathfrak{3}$ -prime near-rings with left multipliers

محل انتشار:

مجله جبر و موضوعات مرتبط، دوره 6، شماره 1 (سال: 1397)

تعداد صفحات اصل مقاله: 11

نویسندگان:

M. Ashraf - Department of Mathematics, Faculty of Science, Aligarh Muslim University, Aligarh 202002, India

A. Boua - Department of Mathematics, Physics and Computer Science, Sidi Mohammed Ben Abdellah University, Taza, Morocco

خلاصه مقاله:

Let \mathcal{N} be a $\mathfrak{3}$ -prime near-ring with the center $Z(\mathcal{N})$ and $n \geq 1$ be a fixed positive integer. In the present paper it is shown that a $\mathfrak{3}$ -prime near-ring \mathcal{N} is a commutative ring if and only if it admits a left multiplier \mathcal{F} satisfying any one of the following properties: (i) $\mathcal{F}^n([x, y]) \in Z(\mathcal{N})$, (ii) $\mathcal{F}^n(x \circ y) \in Z(\mathcal{N})$, (iii) $\mathcal{F}^n([x, y]) \pm (x \circ y) \in Z(\mathcal{N})$ and (iv) $\mathcal{F}^n([x, y]) \pm x \circ y \in Z(\mathcal{N})$, for all $x, y \in \mathcal{N}$.

کلمات کلیدی:

Prime near-ring, derivations, commutativity, left multiplier- $\mathfrak{3}$

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/2030062>

