

## GROUP IDENTITIES ON UNITS AND SYMMETRIC UNITS OF GROUP RINGS%0A

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Group Identities on Units and Symmetric Units of Group ...

Group Identities on Units and Symmetric Units of Group Rings; Gregory T Lee; 9781849965033; Books - Amazon.ca

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This book presents these results for arbitrary group identities, as well as the conditions under which the unit group or the set of symmetric units satisfies several particular group identities of interest.

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The conditions under which these symmetric units satisfy a group identity have now been determined--" @en;

schema:description " Group Identities on Units and Symmetric Units of Group Rings; Preface; Contents; Chapter 1: Group Identities on Units of Group Rings; Chapter 2: Group Identities on Symmetric Units; Chapter 3: Lie Identities on Symmetric Elements; Chapter 4: Nilpotence of  $U(FG)$  and  $U^+(FG)$ ; Chapter 5: The Bounded Engel Property; Chapter 6: Solvability of  $U(FG)$  and  $U^+(FG)$ ; Chapter 7

Group identities for symmetric units of group rings

Group identities for symmetric units Group identities for symmetric units of group rings Ernesto Spinelli Universita del Salento, Dipartimento di Matematica E. De Giorgi Ischia, April 14-17, 2010 Ischia Group Theory 2010.

Involutions in group rings Main questions Group identities for symmetric units Classical and  $K$ -linear involutions Symmetric and skew-symmetric elements Symmetric units (PDF) Symmetric units and group identities - researchgate.net

Symmetric units and group identities 447 Notice that if  $x$  is an indeterminate, then  $(a x + (a)x) \in I_{sa}$ -generalized polynomial identity ( $\mathcal{G}$ -GPI) of  $R$  and, by applying the Group Identities on Units and Symmetric Units of Group ...

Let  $FG$  be the group ring of a group  $G$  over a field  $F$ . Write  $U(FG)$  for the group of units of  $FG$ . It is an important problem to determine the conditions under which  $U(FG)$  satisfies a group identity. In the mid-1990s, a conjecture of Hartley was verified; namely, if  $U(FG)$  satisfies a group

identity

## SYMMETRIC UNITS AND GROUP IDENTITIES IN GROUP

The symmetric units  $S(FG)$  satisfy a group identity if and only if  $G$  has a normal subgroup  $A$  of finite index, the commutator subgroup  $A' = 1$  is a finite  $p$ -group and one of the following conditions holds:

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Group Identities on Units and Symmetric Units of Group Rings Algebra and Applications Volume 12 Managing Editor: Alain Verschoren University of Antwerp, Belgium Series Editors:

(PDF) Symmetric Units and Group Identities in Group ...

We describe those group algebras over fields of characteristic different from 2 whose units symmetric with respect to the classical involution, satisfy some group identity.

### Symmetric units and group identities - Faculty of Science

symmetric units satisfy a group identity if and only if the group of units satisfies a group identity; if  $K \neq \mathbb{C}$ , the symmetric units satisfy a group identity if and only if 1)  $FG$  satisfies a polynomial identity, 2) the set of  $p$ -elements of  $G$  forms a (normal) subgroup  $P$  of  $G$  and  $G/P$  is a Hamiltonian 2-group, 3)  $G$  is of bounded exponent  $4ps$  for some  $s > 0$ . What about general rings with an