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It was introduced by G. Frobenius in 1896 (see and), who was inspired by the concept of a group determinant, a notion that had been introduced by R. Dedekind. Also W. Burnside studied finite

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in their own right. In their study, many branches of algebra come to a rich interplay. This book takes the reader from beginning to research level and contains many topics that, so far, were only found in papers published in scientific journals and, whenever

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A group is called of finite order if it has finitely many elements. It is called abelian if it is

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commutative:  $gh = hg$  for all  $g, h \in G$ . 1.2. Subgroup and order. A subgroup  $H$  of a group  $G$  is a non-empty subset of  $G$  such that (i)  $e \in H$ , (ii) if  $g, h \in H$  then  $gh \in H$ , and (iii) if  $g \in H$  then also  $g^{-1} \in H$ . One readily checks that in fact  $H$  is a group.

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GROUP THEORY AND  
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then the hypercomplex numbers  
generated by  $G$  is called the  
Group Ring ( $RG$ ). Arthur Cayley  
1854. Definition 1.11 Given a

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group  $G$  and a ring  $R$ , define the Group Ring  $RG$  to be the set of all linear combinations  $\alpha = \sum_{g \in G} a_g g$  where  $a_g \in R$  and where only finitely many of the  $a_g$ s are non-zero. Define the sum  $\alpha + \beta = \sum_{g \in G} (a_g + b_g)g$ .

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A Course In Group Rings

WHAT IS A GROUP RING? D. S.

PASSMAN 1. Introduction. Let  $K$  be a field. Suppose we are given some three element set  $\{a, x, y\}$  and we are asked to form a  $K$ -vector space  $V$  with this set as a

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basis. Then certainly we merely take  $V$  to be the collection of all formal sums  $a_1x + a_2x^2 + \dots + a_nx^n$  with  $a_1, a_2, \dots, a_n \in K$ . In the same way if we were

What is a Group Ring?

In algebra, a group ring is a free

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module and at the same time a ring, constructed in a natural way from any given ring and any given group. As a free module, its ring of scalars is the given ring, and its basis is one-to-one with the given group.



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an introduction to ...

'Rings, Fields and Groups' gives a  
stimulating and unusual  
introduction to the results,

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methods and ideas now commonly studied on abstract algebra courses at undergraduate level. The author provides a mixture of informal and formal material which help to stimulate the enthusiasm of the student, whilst still providing the essential

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theoretical concepts necessary  
for serious study.

Rings, Fields and Groups, An  
Introduction to Abstract ...

Definition 1.1A ring is a triple  $(R, +, \cdot)$  where  $R$  is a set, and  $+$  and  $\cdot$  are binary operations on  $R$  (called

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addition and multiplication respectively) so that: (1)  $(R, +)$  is an abelian group (with identity denoted by  $0$  and the inverse of  $x \in R$  denoted by  $-x$ , as usual.) (2) Multiplication is associative.

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Introduction to Rings & Fields

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that  $(y(a)a)y(a)t = e$  then

$(y(a)a)e = e$  Hence  $y(a)a = e$ : So

every right inverse is also a left

inverse. Now for any  $a \in G$  we have

$ea = (ay(a))a = a(y(a)a) = ae = a$  as



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$e$  is a right identity. Hence  $e$  is a left identity. 2.4. If  $G$  is a group of even order, prove that it has an element  $a \neq e$  satisfying  $a^2 = e$ :

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In ring theory an idempotent element, or simply an idempotent, of a ring is an element  $a$  such that  $a^2 = a$ . That is, the element is idempotent under the ring's multiplication.



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Inductively then, one can also conclude that  $a = a^2 = a^3 = a^4 = \dots = a^n$  for any positive integer  $n$ . For example, an idempotent element of a matrix ring is precisely an idempotent matrix. For general rings, elements idempotent under multiplication

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are involved in decompositions of modules, and connected to homological proper

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