

methods of graded ring pdf

A ring R is called almost strongly graded by the group G if there exists a family $(R_i)_{i \in G}$ of additive subgroups of R with $1 \in R_e$, $R = \sum_{i \in G} R_i$, and $R_i R_j = R_{ij}$, for all $i, j \in G$. Prove that : i) If R is an almost strongly graded ring and I is a two-sided ideal of R , then R/I is also an almost strongly graded ring.

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(PDF) Categorical methods in graded ring theory

A graded ring R is called nonnegatively graded (or N -graded) if $R_n = 0$ for all $n < 0$. A non-zero element $x \in R_n$ is called a homogeneous element of R of degree n . Remark 1.1. If $R = \sum_{n \in \mathbb{Z}} R_n$ is a graded ring, then R_0 is a subring of R , $1 \in R_0$ and R_n is an R_0 -module for all n . proof.

GRADED RINGS AND MODULES - Department of Mathematics

associated to graded rings is that the smash product defines a new ring such that the category of graded modules over the graded ring becomes isomorphic to a closed subcategory of modules over the smash product.

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group rings and also deal with the question of how the graded 2-nil-good property of a group graded ring depends on the 2-nil-good property of the component which corresponds to the neutral element of the grading group.

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