

Commutative Algebra

Let A denote an \mathbb{R} -algebra, so that A is a vector space over \mathbb{R} and

$$A \times A \rightarrow A \tag{1}$$

$$(x, y) \mapsto x \cdot y. \tag{2}$$

Now define

$$Z \equiv \{x \in A : x \cdot y = 0 \text{ for some } y \in A \neq 0\}, \tag{3}$$

where $0 \in Z$. An **Associative** \mathbb{R} -algebra is commutative if $x \cdot y = y \cdot x$ for all $x, y \in A$.

Similarly, a **ring** is commutative if the **multiplication** operation is commutative, and a **Lie algebra** is commutative if the **commutator** $[A, B]$ is 0 for every A and B in the Lie algebra.

The term "commutative algebra" also refers to the branch of **abstract algebra** that studies **commutative rings**. Commutative algebra is important in **algebraic geometry**.

Commutative Algebra

KJ Lindholm-Leary



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Commutative Algebra Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Commutative Algebra**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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