



# Rings, Modules, and Algebras in Stable Homotopy Theory (Mathematical Surveys and Monographs)

*A. D. Elmendorf, I. Kriz, M. A. Mandell, J. P. May, and M. Cole*

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This book introduces a new point-set level approach to stable homotopy theory that has already had many applications and promises to have a lasting impact on the subject. Given the sphere spectrum  $\mathbb{S}$ , the authors construct an associative, commutative, and unital smash product in a complete and cocomplete category of " $\mathbb{S}$ -modules" whose derived category is equivalent to the classical stable homotopy category. This construction allows for a simple and algebraically manageable definition of " $\mathbb{S}$ -algebras" and "commutative  $\mathbb{S}$ -algebras" in terms of associative, or associative and commutative, products  $R \wedge_S R \rightarrow R$ . These notions are essentially equivalent to the earlier notions of  $A$ - $\mathbb{S}$  and  $E$ - $\mathbb{S}$  ring spectra, and the older notions feed naturally into the new framework to provide plentiful examples. There is an equally simple definition of  $R$ -modules in terms of maps  $R \wedge_S M \rightarrow M$ . When  $R$  is commutative, the category of  $R$ -modules also has a

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