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On semi-hereditary orders integral
over a commutative valuation ring

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Abstract

In this paper, we study semi-hereditary V -orders in a simple Artinian ring Q with finite dimension over its center, where V is a commutative valuation ring. Let S be a minimal V -overring of a semi-hereditary V -order R . In Section 1, we investigate some relations between all maximal ideals of S and R , and characterize the commutativities of idempotent maximal ideals of R in terms of orders of ideals. In Section 2, we show that there is a bijection between the set of all V -overrings of R and the set of all idempotent ideals which are finitely generated as left ideals. Any element in the latter set is characterized by four different types of cycles. In Section 3, we discuss the principality of the Jacobson radical $J(R)$. Some results in Sections 1–3 are used to derive the exact numbers of all semi-hereditary maximal V -orders containing R and of all V -overrings of R , and to study the nilpotency of $J(R)$ modulo $J(V)R$. Some invariant properties of semi-hereditary V -orders are also given.

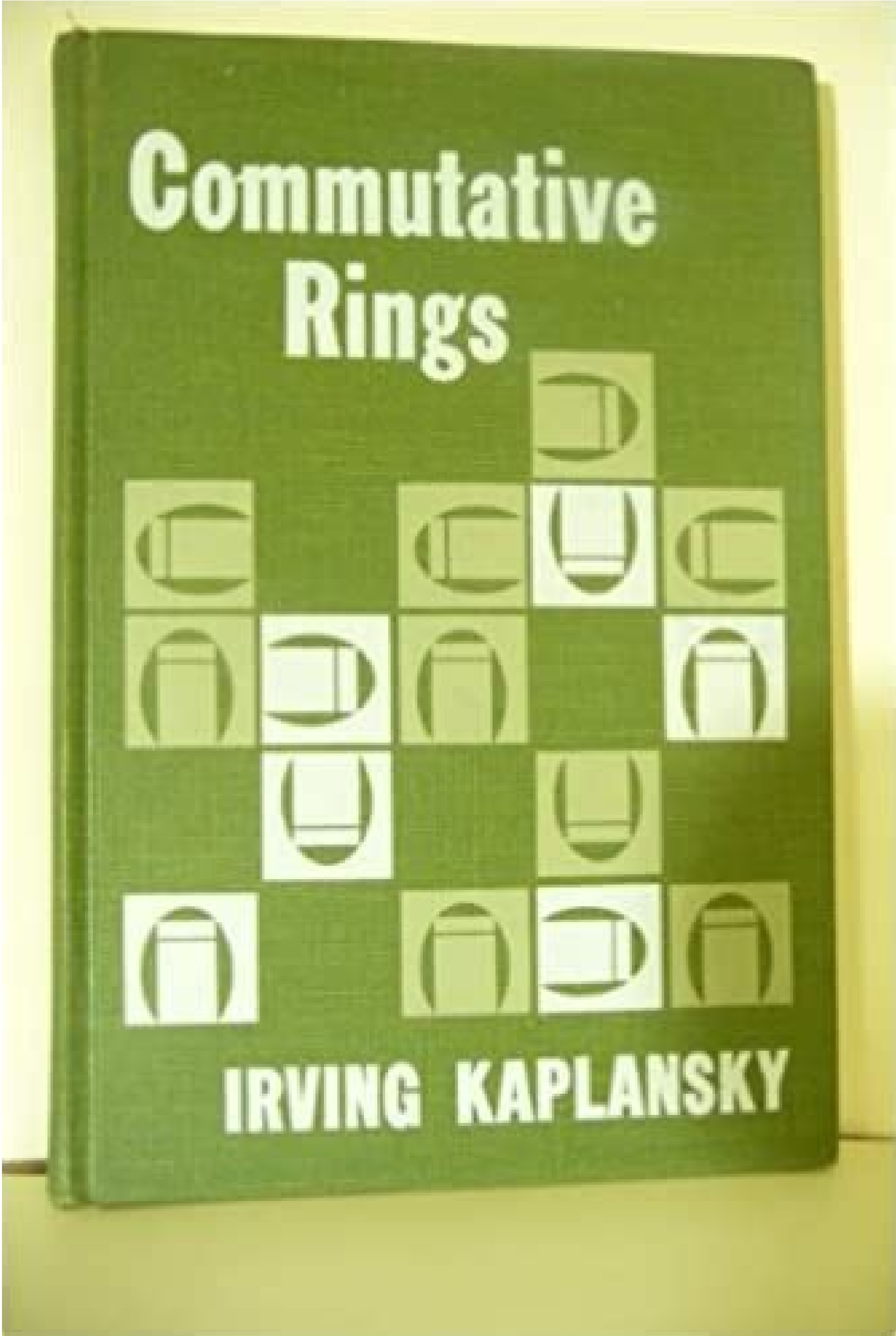
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Introduction

This paper is concerned with semi-hereditary orders in a simple Artinian ring. Let Q be a simple Artinian ring with finite dimension over its center F and let R be a subring of Q with its center V . We say that R is an *order* in Q if Q is the quotient ring of R , i.e., $Q = F \cdot R$ and F is the quotient field of V . If every element in R is integral over V , then we say that R is a V -order. We concentrate ourselves to the local theory, namely, V is a valuation ring of F , though some of the results in this paper may be globalized. If

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1. INTRODUCTION

There are a few general constructions that produce commutative ring spectra for you. For instance, the construction of Thom spectra often gives rise to commutative ring spectra. We will discuss this important class of examples in Section 4. A classical construction due to Graeme Segal also produces small nice models of commutative ring spectra (see Section 5).

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