

The aim of this thesis is to familiarise the reader with the concept of a \mathcal{C} -filtration, to show properties of special instances of \mathcal{C} -filtrations and to construct structures corresponding to general \mathcal{C} -filtrations. The first chapter deals with the definition of a \mathcal{C} -filtration, a transfinite composition series and its length, the semiartinian module, the socle-sequence and its length, a proof of the Jordan-Hölder Theorem for transfinite composition series and a proof of the properties relevant to general semiartinian modules. In the second chapter, the concept of a closed subset of an ordinal and its properties are defined and proved, this concept is key to the proof of Hill's Lemma, which for a general \mathcal{C} -filtration provides a complete, distributive, dense sublattice containing the given \mathcal{C} -filtration. The last third chapter deals with the dual concept to the concept of the socle-sequence, the decreasing Loewy series. We prove the equality of their lengths for modules of finite length and analyze the relations of their lengths for the case of general modules.