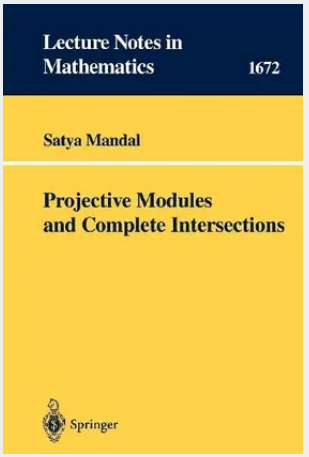
Mandal

Projective Modules and Complete Intersections

In these notes on "Projective Modules and Complete Intersections" an account on the recent developments in research on this subject is presented. The author's preference for the technique of Patching isotopic isomorphisms due to Quillen, formalized by Plumsted, over the techniques of elementary matrices is evident here. The treatment of Basic Element theory here incorporates Plumstead's idea of the "generalized dimension functions". These notes are highly selfcontained and should be accessible to any graduate student in commutative algebra or algebraic geometry. They include fully self-contained presentations of the theorems of Ferrand-Szpiro, Cowsik-Nori and the techniques of Lindel.

Preliminaires.- Patching modules and other preliminaries.- Extended modules over polynomial rings.- Modules over commutative rings.- The theory of matrices.- Complete intersections.- The techniques of lindel.



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