

Call, Frederick W.

Torsion theoretic algebraic geometry. (English) [Zbl 0714.13011](#)
Queen's Papers in Pure and Applied Mathematics, 82. Kingston: Queen's University. vi, 118 p. (1989).

These notes develop the theory of torsion functors and half-centered torsion functors. They lead to very quick and pleasant applications to local cohomology, Picard group of rings etc. The notes are written very well and it is very pleasant reading. They are self-contained. The connections to basic aspects of sheaf theory in algebraic geometry are explained lucidly. Though there are no real new applications, the ones presented here are interesting and are arrived at effortlessly.

Reviewer: [N.Mohan Kumar](#)

MSC:

- [13D30](#) Torsion theory for commutative rings
- [14B15](#) Local cohomology and algebraic geometry
- [13D45](#) Local cohomology and commutative rings
- [14-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to algebraic geometry
- [13-02](#) Research exposition (monographs, survey articles) pertaining to commutative algebra
- [18E40](#) Torsion theories, radicals

Cited in **4** Documents

Keywords:

[torsion functors](#); [local cohomology](#); [Picard group](#)