



## Algebre Locale. Multiplicites

By J. P. Serre

Springer-Verlag Gmbh Jan 1989, 1989. Taschenbuch. Book Condition: Neu. 23.5x15.5x cm. Neuware - This edition reproduces the 2nd corrected printing of the 3rd edition of the now classic notes by Professor Serre, long established as one of the standard introductory texts on local algebra. Referring for background notions to Bourbaki's 'Commutative Algebra' (English edition Springer-Verlag 1988), the book focusses on the various dimension theories and theorems on multiplicities of intersections with the Cartan-Eilenberg functor  $\text{Tor}$  as the central concept. The main results are the decomposition theorems, theorems of Cohen-Seidenberg, the normalisation of rings of polynomials, dimension (in the sense of Krull) and characteristic polynomials (in the sense of Hilbert-Samuel). Chapitre I. DIAUX PIEMIEIS IT LOCALISATION I I. Wotationa et definitions I 2. Lemme de Nakayama. . . . 2 3. Localisation - - - 4. Anneaux et modules noethériens 2 5. Spectre----- 3 4 6. Le cas noetherien. 4 7. Ideaux premiers associés. Chapitre 11. OUTILS IT SOUTES A) Filtrations et graduations. 8 I. Anneaux et modules filtrés - 8 2. Topologie définie par UDe filtration 9 10 3. Coopération des modules filtrés - - - II 4. Anneaux et modules gradués - - - - 5....

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