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Lectures on $N_X(p)$ (Hardback)

By Jean-Pierre Serre

Taylor Francis Inc, United States, 2011. Hardback. Book Condition: New. 230 x 152 mm. Language: English . Brand New Book. Lectures on $N_X(p)$ deals with the question on how $N_X(p)$, the number of solutions of mod p congruences, varies with p when the family (X) of polynomial equations is fixed. While such a general question cannot have a complete answer, it offers a good occasion for reviewing various techniques in ℓ -adic cohomology and group representations, presented in a context that is appealing to specialists in number theory and algebraic geometry. Along with covering open problems, the text examines the size and congruence properties of $N_X(p)$ and describes the ways in which it is computed, by closed formulae and/or using efficient computers. The first four chapters cover the preliminaries and contain almost no proofs. After an overview of the main theorems on $N_X(p)$, the book offers simple, illustrative examples and discusses the Chebotarev density theorem, which is essential in studying Frobenian functions and Frobenian sets. It also reviews ℓ -adic cohomology. The author goes on to present results on group representations that are often difficult to find in the literature, such as the technique of computing Haar measures in a compact ℓ -adic...



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