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Titolo	Lectures on N_X (p) / / Jean-Pierre Serre
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ISBN	0-429-06761-5 1-283-59620-2 9786613908650 1-4665-0193-6
Descrizione fisica	1 online resource (168 p.)
Collana	Research notes in mathematics ; ; v. 11
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Soggetti	Polynomials Number theory Representations of groups Cohomology operations
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Note generali	An AK Peters book.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Conventions; Chapter 1. Introduction; Chapter 2. Examples; Chapter 3. The Chebotarev Density Theorem for a Number Field; Chapter 4. Review of l-adic Cohomology; Chapter 5. Auxiliary Results on Group Representations; Chapter 6. The l-adic Properties of NX(p); Chapter 7. The Archimedean Properties of NX(p); Chapter 8. The Sato-Tate Conjecture; Chapter 9. Higher Dimension: the Prime Number Theorem and the Chebotarev Density Theorem; References
Sommario/riassunto	This book presents several basic techniques in algebraic geometry, group representations, number theory, -adic and standard cohomology, and modular forms. It explores how NX(p) varies with p when the family (X) of polynomial equations is fixed. The text examines the size and congruence properties of NX(p) and describes the ways in which it is computed. Along with covering open problems and offering simple, illustrative examples, the author presents various theorems, including the Chebotarev density theorem and the prime number theorem--

The main topic involves counting solutions mod p of a system of polynomial equations, as p varies. The book is based on a series of lectures presented by the author in Taiwan. Using this idea, Serre visits algebra and number theory and asks some non-standard questions, especially on group representations--