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Titolo	N-gons // Friedrich Bachmann and Eckart Schmidt ; translated by Cyril W. L. Garner
Pubbl/distr/stampa	Toronto, [Ontario] ; ; Buffalo, [New York] : , : University of Toronto Press, , 1975 ©1975
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Descrizione fisica	1 online resource (208 p.)
Collana	Mathematical Expositions, , 0076-5333x ; ; Number 18
Disciplina	516/.22
Soggetti	Polygons Set theory Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Authors' preface -- Translator's preface -- Summary of contents -- Introduction -- 1. Cyclic classes of n-gons -- 2. Cyclic mappings of n-gons -- 3. Isobaric cyclic mappings -- 4. Averaging mappings -- 5. Idempotent elements and Boolean algebras -- 6. The main theorem about cyclic classes -- 7. Idempotent-transfer. Residue class rings of principal ideal domains -- 8. Boolean algebras of the n-gonal theory I -- 9. Boolean algebras of the n-gonal theory II -- 10. Rational components of an n-gon -- 11. Complex components of an n-gon -- 12. The real components of an n-gon -- 1. Lattices -- 2. Cyclotomic polynomials -- List of symbols and notations -- Index
Sommario/riassunto	This book, a translation of the German volume n-Ecke, presents an elegant geometric theory which, starting from quite elementary geometrical observations, exhibits an interesting connection between geometry and fundamental ideas of modern algebra in a form that is easily accessible to the student who lacks a sophisticated background in mathematics. It stimulates geometrical thought by applying the tools of linear algebra and the algebra of polynomials to a concrete geometrical situation to reveal some rather surprising insights into the geometry of n-gons. The twelve chapters treat n-gons, classes of n-gons, and mapping of the set of n-gons into itself. Exercises are

included throughout, and two appendixes, by Henner Kinder and Eckart Schmidt, provide background material on lattices and cyclotomic polynomials. (Mathematical Expositions No. 18)

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