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	Collana	Mathematical Expositions, , 0076-5333x ; ; Number 18
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	Soggetti	Polygons Set theory
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	Livello bibliografico	Monografia
	Note generali	Translation of: N-Ecke.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction -- PART I: Cyclic classes and cyclic mappings -- PART II: The main theorem -- PART III: Boolean algebras of n-gonal theory -- PART IV: Atomic decompositions -- Appendices -- List of symbols and notations.
	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).