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Titolo	A Connotational Theory of Program Structure [[electronic resource] /] / by James S. Royer
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Nota di contenuto	Motivations, background, and basic definitions -- Effective numberings, completions, and control structures -- Some special effective numberings -- Characterizations of acceptability -- Independence of control structures -- General programming properties of effective numberings of subrecursive classes.
Sommario/riassunto	This book presents developments of a language independent theory of program structure. The theory features a simple, natural notion of control structure which is much broader than in other theories of programming languages such as denotational semantics and program schemes. This notion permits treatment of control structures which involve not only the denotation of programs (i.e., their input/output behavior), but also their structure, size, run times, etc. The theory also treats the relation of control structure and complexity properties of programming languages. The book focuses on expressive interdependencies of control structures (which control structures can be expressed by which others). A general method of proving control

structures expressively independent is developed. The book also considers characterizations of the expressive power of general purpose programming languages in terms of control structures. Several new characterizations are presented and two compactness results for such characterizations are shown.