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Autore	Schoon John G (John George), <1937->
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Descrizione fisica	1 online resource (xiv, 152 pages) : illustrations, maps
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Soggetti	Highway engineering Roads - Design and construction
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Factors Affecting Selection of the Highway Route; Design Controls and Guidelines; Application of Geometric Design Principles to Route Design; Example of a Rural Highway Geometric Design; Preliminary Highway Geometric Design Projects; Topographic Map Symbols; Construction of Cross Sections; Index
Sommario/riassunto	This book provides an overall perspective of the various elements that contribute to highway design and explains how they interact to create a basis for the preliminary route selection and design. Projects are followed from the initial provision of a topographic map and specifications through to the investment and user cost estimates of a particular highway. Vertical and horizontal alignment, drainage issues, and potential environmental impacts are also discussed. Structured to complement highway design theory described in existing texts and design guidelines and to supplement these in a typical highway design course, this book may be used in classes for senior undergraduate or graduate students. This volume expands on environmental reporting concerns; presents a discussion of economic cost analysis and its applications; includes an outline of route selection and design methods aided by digital terrain and computerized alignment modeling; and furthers realism of design and evaluation in the classroom. In addition, this book can serve as a supplementary text for a short-course on geometric design for practicing engineers and as a practical resource for transportation and land-use planners.

