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Recent Transport Engineering Book Title

**Fundamentals
of
Road
Design**

W. Kühn

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Fundamentals of Road Design

Description:

This reference book communicates the basic theoretical knowledge, the practical requirements and experience for designing, mapping, calculating and checking roads and the planning process overall – and at the same time reveals important development trends.

The book is guided by the current rules and regulations in Germany, it universalizes this knowledge and also integrates important current research results in road design processes.

The scope of the book is limited to the theoretical principles and knowledge, and the practical experience for, designing rural roads (i.e. the special features of urban roads are not mentioned). This clear separation is necessary because different principles, rules and regulations apply to urban roads.

The terms, definitions, abbreviations and formula Symbols, though based on German usage, can be easily transferred to an international framework.

As a reference book, it supports the ongoing training process for road transportation engineers in planning offices and public bodies. Any specialist working in the transportation sector can use it as a reference book. The work would also be useful as a course book for students of road design.

Review:

“...the book should find a place in the bookshelf of every modern and prominent highway design professional.”

Advances in Transportation Studies an international Journal,
Section B30, 2013

Contents:

- **Chapter 1:** Introduction
- **Chapter 2:** Classification and Standardization
- **Chapter 3:** Driver – Vehicle – Road Interaction
- **Chapter 4:** Vehicle Kinematics and Dynamics
- **Chapter 5:** Speed Terminology
- **Chapter 6:** Sight Distances
- **Chapter 7:** Alignment
- **Chapter 8:** Cross Section
- **Chapter 9:** Intersections
- **Chapter 10:** Road Design Procedures
- **Chapter 11:** Visualization
- **Chapter 12:** New Types of Model Projections

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Author Biography:

Wolfgang Kühn studied transportation engineering at the “Friedrich List” University of Transportation and Traffic Sciences (HfV) in Dresden and completed his degree as a “Diplomingenieur” (graduate engineer) in 1977. After obtaining a qualification to teach at a university, he obtained his doctorate (Dr.-Ing) in 1981. He was a design engineer, estimator and construction manager at various planning offices and construction companies at different levels during the period 1981 – 1990. He founded the DELTA-PLAN GmbH planning office in 1990 and he has been successfully managing this as the senior partner for 22 years.

He completed his university teaching qualification by obtaining his Dr.-Ing. Habilitatus degree at the Technical University of Dresden in 2002. He was university professor at the University of Leipzig from 2004 until 2008 and he has been professor in the Department of Transport and Energy Engineering at the University of Applied Sciences Zwickau since 1 March 2008.

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