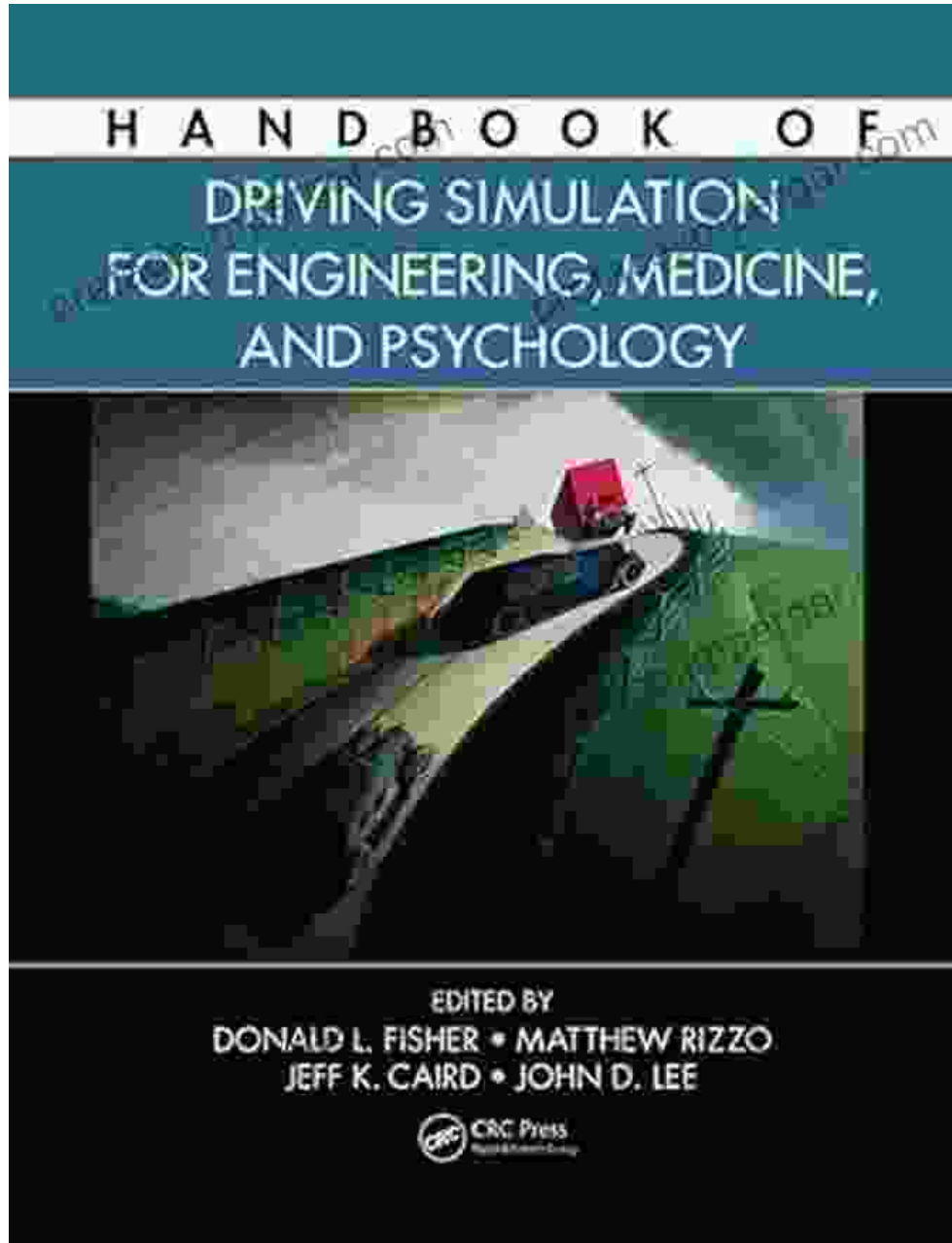


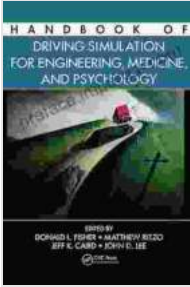
Handbook of Driving Simulation for Engineering, Medicine and Psychology



Handbook of Driving Simulation for Engineering, Medicine, and Psychology by Donald L. Fisher

★★★★★ 5 out of 5

Language : English



File size : 75050 KB

Print length : 752 pages



In today's rapidly evolving transportation landscape, driving simulation has emerged as an indispensable tool for engineers, medical professionals, and psychologists. This comprehensive handbook serves as the definitive guide to this transformative technology, empowering readers to harness its full potential in research, development, and practice.

Chapter 1: The Fundamentals of Driving Simulation

- Principles and components of driving simulators
- Types of simulators and their capabilities
- Validation and verification of driving simulation systems

Chapter 2: Engineering Applications

- Vehicle design and development
- Roadway infrastructure planning
- Traffic management and safety analysis
- Autonomous vehicle testing and validation

Chapter 3: Medical Applications

- Driver behavior analysis and assessment
- Rehabilitation for driving-related injuries
- Evaluation of medical conditions impacting driving
- Development of assistive driving technologies

Chapter 4: Psychological Applications

- Cognitive and perceptual factors in driving
- Driver distraction and fatigue
- Stress and anxiety in driving
- Driver training and education

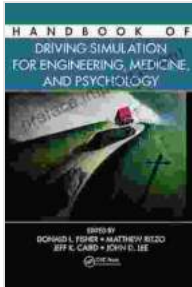
Chapter 5: Advanced Topics in Driving Simulation

- Virtual reality and augmented reality in driving simulation
- Human-machine interfaces and driver feedback systems
- Big data analysis in driving simulation
- Ethical and legal considerations in driving simulation research

This handbook is an essential resource for anyone seeking to leverage driving simulation to advance their research, improve patient outcomes, or design safer and more efficient transportation systems. It provides a comprehensive overview of the field, from its theoretical foundations to its practical applications, empowering readers to make informed decisions and drive innovation in this rapidly growing domain.

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Unlock the transformative power of driving simulation. Free Download your copy of the Handbook of Driving Simulation for Engineering, Medicine and Psychology today and revolutionize your approach to research, practice, and development.



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