Performance Metrics for Assessing Driver Distraction: The Quest for Improved Road Safety
By Gary L. Rupp
This book focuses on the study of secondary task demands imposed by in-vehicle devices on the driver while driving. It provides a mechanism for researchers to evaluate how in-vehicle devices such as navigation systems — as well as other devices such as cell phones — affect driver distraction and impact safety.
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Edited by workshop moderator Dr. Gary L. Rupp, the book introduces vital information to support the design of in-vehicle information and communication systems (IVIS).

Topics covered include:
- Driver object and event detection
- Peripheral detection tasks (PDT)
- Tactile-based detection tasks (TDT)
- Modified Sternberg method for assessing visual and cognitive load of in-vehicle tasks
- Modified Sternberg method for assessing peripheral detection task and lane change tests
- The relationship between performance metrics and crash risk
- Characterizing driver behaviors observed in naturalistic driving studies
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