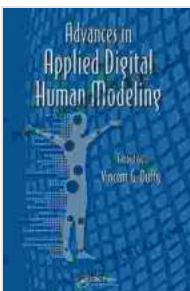


****Unlock the Power of Digital Human Modeling for Optimized Outcomes****

In the ever-evolving field of human factors and ergonomics, digital human modeling (DHM) has emerged as a transformative tool, offering unparalleled insights and capabilities for optimizing human-system interactions.

Introducing ****Advances in Applied Digital Human Modeling: Advances in Human Factors and Ergonomics****, a comprehensive guide that empowers practitioners, researchers, and students with the latest advancements and applications of DHM.



Advances in Applied Digital Human Modeling (Advances in Human Factors and Ergonomics Series)

★★★★★ 5 out of 5

Language : English

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Defining Digital Human Modeling

DHM refers to the creation of virtual representations of humans that simulate human behavior, physiology, and cognitive processes. These digital models serve as invaluable tools for evaluating and improving the design, safety, and usability of various products, systems, and environments.

Applications of Digital Human Modeling

The applications of DHM span a wide range of industries and disciplines, including healthcare, manufacturing, design, and transportation. Here are some key examples:

1. **Product Design Optimization:** DHM enables designers to simulate human interactions with products, identifying potential hazards, improving ergonomic comfort, and enhancing overall user experience.
2. **Workplace Safety Assessment:** Digital human models can assess the physical demands and risks associated with various job tasks, helping to mitigate musculoskeletal disorders and improve workplace safety.
3. **Medical Planning and Simulation:** DHM supports surgeons in planning and rehearsing complex procedures, improving surgical outcomes and patient safety.
4. **Transportation Safety Analysis:** Digital human models are used to simulate occupant behavior in vehicles, evaluating the effectiveness of safety systems and optimizing vehicle design for crashworthiness.

Key Features and Benefits

Advances in Applied Digital Human Modeling offers a wealth of benefits for practitioners and researchers:

- **Comprehensive Coverage:** In-depth exploration of the latest DHM techniques, principles, and applications across various industries.
- **Real-World Case Studies:** Practical examples showcase the transformative impact of DHM in solving real-world problems.

- **Latest Advances:** Stay abreast of cutting-edge DHM technologies, including virtual reality and artificial intelligence integration.
- **Practical Guidance:** Clear, actionable guidance on how to implement DHM in your projects and deliverables.
- **Expert Contributions:** Insights from leading researchers and practitioners in the field of digital human modeling.

Who Should Read This Book?

Advances in Applied Digital Human Modeling is essential reading for:

- Human factors engineers
- Ergonomists
- Designers
- Researchers
- Students in human factors, ergonomics, and related fields
- Anyone interested in the transformative power of digital human modeling

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Don't miss out on this invaluable resource that will revolutionize your understanding and application of digital human modeling. Free Download your copy of ****Advances in Applied Digital Human Modeling**** now and unlock the power to optimize human-system interactions.

Available in print and e-book formats at leading bookstores and online retailers.

About the Authors

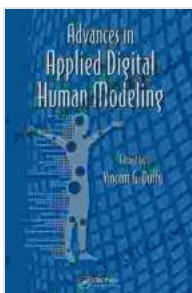
Vinod Goel is Professor of Industrial and Systems Engineering at the University of Wisconsin-Madison. He is a renowned expert in digital human modeling and human factors.

Thomas Ahlström is Associate Professor in the Department of Health Sciences, Luleå University of Technology, Sweden. His research focuses on digital human modeling for ergonomics and product design.

Kristi Abbott is a Senior Research Scientist at the National Institute for Occupational Safety and Health (NIOSH). She specializes in digital human modeling and human simulation.

Contact Us

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