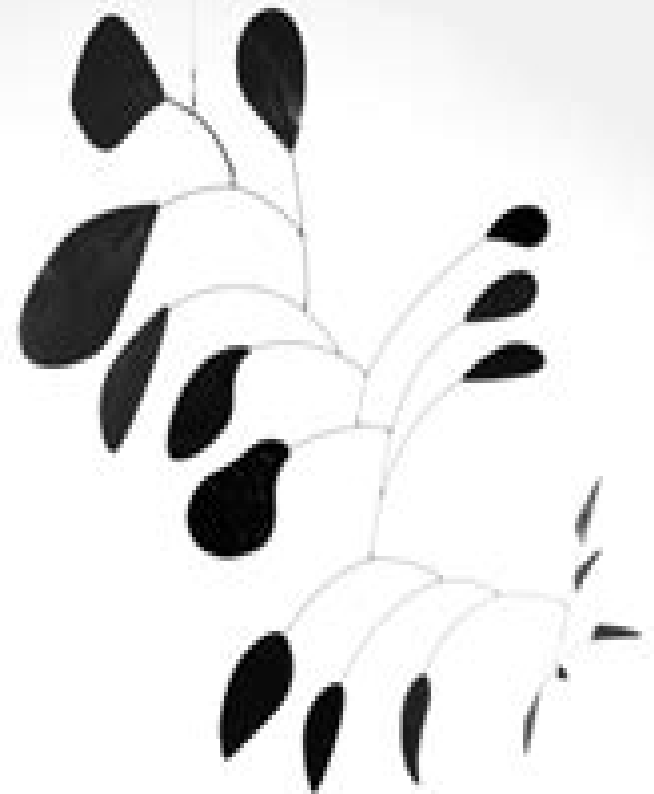


DESIGNING FOR PEOPLE

An INTRODUCTION to
HUMAN FACTORS ENGINEERING



JOHN D. LEE | CHRISTOPHER D. WICKENS | YU LIU | LINDA NG BOYLE

DESIGNING FOR PEOPLE

John D. Lee
Christopher D. Wickens
Yu Liu
Linda Ng Boyle

Designing for People

Whether it is the car you drive or the app on your smartphone, technology has an increasingly powerful influence on you. When designed with people in mind, this influence can improve lives and productivity. This book provides a broad introduction on how to attend to the needs, capabilities, and preferences of people in the design process. We combine methods of design thinking and systems thinking to understand people's needs and evaluate whether those needs are met. This book also provides a detailed description of the capabilities and limits of people—both mental and physical—and how these can guide the design of everything from typography to houses and from data visualizations to futures. The book includes:

- Over 70 design principles for displays, controls, human computer interaction, automation, and workspace layout
- Integrative discussion of the research and theory underlying these guidelines, supported by over 1,000 references
- Examples of successful and unsuccessful designs and exercises that link principles and theory to applications in consumer products, the workplace, and high risk systems

We hope this book gives a useful introduction to the diverse field of human factors engineering.

About the Authors

John D. Lee is the Executive Director, Quality and Productivity Professor of Industrial & Systems Engineering at the University of Wisconsin-Madison.

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Table of Contents Designing For Humans Designing For Humans

1. Understanding the eBook Designing For Humans Designing For Humans
 - The Rise of Digital Reading Designing For Humans Designing For Humans
 - Advantages of eBooks Over Traditional Books
2. Identifying Designing For Humans Designing For Humans
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Designing For Humans Designing For Humans
 - User-Friendly Interface
4. Exploring eBook Recommendations from Designing For Humans Designing For Humans
 - Personalized Recommendations
 - Designing For Humans Designing For Humans User Reviews and Ratings
 - Designing For Humans Designing For Humans and Bestseller Lists
5. Accessing Designing For Humans Designing For Humans Free and Paid eBooks
 - Designing For Humans Designing For Humans Public Domain eBooks
 - Designing For Humans Designing For Humans eBook Subscription Services
 - Designing For Humans Designing For Humans Budget-Friendly Options
6. Navigating Designing For Humans Designing For Humans eBook Formats
 - ePub, PDF, MOBI, and More
 - Designing For Humans Designing For Humans Compatibility with Devices
 - Designing For Humans Designing For Humans Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Designing For Humans Designing For Humans
 - Highlighting and Note-Taking Designing For Humans Designing For Humans
 - Interactive Elements Designing For Humans Designing For Humans
8. Staying Engaged with Designing For Humans Designing For Humans

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Designing For Humans Designing For Humans
- 9. Balancing eBooks and Physical Books Designing For Humans Designing For Humans
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Designing For Humans Designing For Humans
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Designing For Humans Designing For Humans
 - Setting Reading Goals Designing For Humans Designing For Humans
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Designing For Humans Designing For Humans
 - Fact-Checking eBook Content of Designing For Humans Designing For Humans
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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