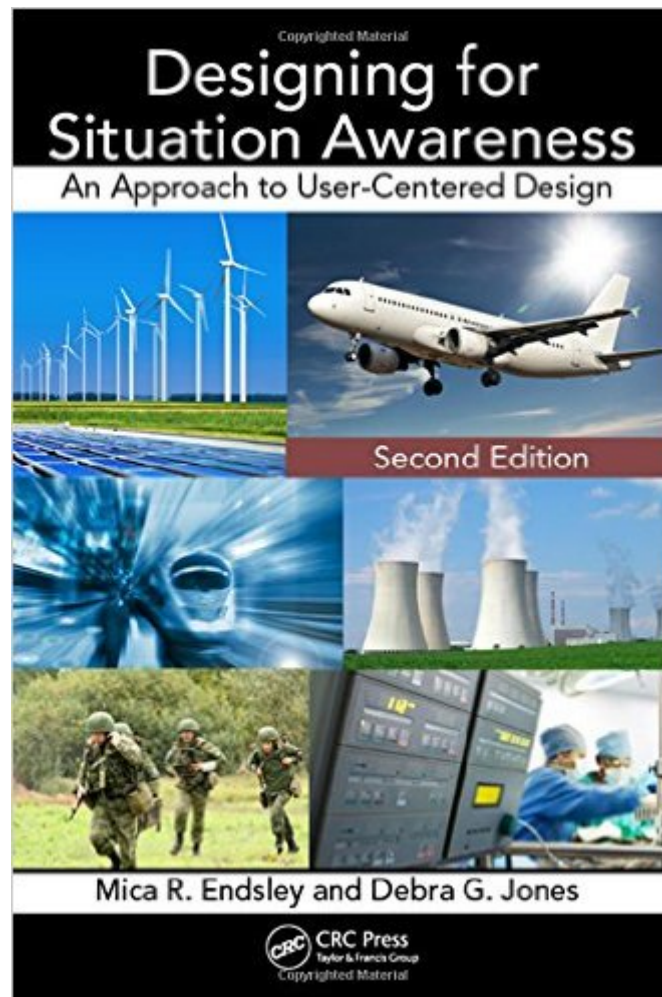


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# Designing For Situation Awareness: An Approach To User-Centered Design, Second Edition



## Synopsis

The barrage of data overload is threatening the ability of people to effectively operate in a wide range of systems including aircraft cockpits and ground control stations, military command and control centers, intelligence operations, emergency management, medical systems, air traffic control centers, automobiles, financial and business management systems, space exploration, and power and process control rooms. All of these systems need user interfaces that allow people to effectively manage the information available to gain a high level of understanding of what is currently happening and projections on what will happen next. They need systems designed to support situation awareness. Addressing the information gap between the plethora of disorganized, low-level data and what decision makers really need to know, *Designing for Situation Awareness: An Approach to User-Centered Design, Second Edition* provides a successful, systematic methodology and 50 design principles for engineers and designers seeking to improve the situation awareness of their systems' users based on leading research on a wide range of relevant issues. See what's new in the Second Edition: Significantly expanded and updated examples throughout to a wider range of domains New Chapters: Situation Awareness Oriented Training and Supporting SA in Unmanned and Remotely Operated Vehicles Updated research findings and expanded discussion of the SA design principles and guidelines to cover new areas of development Mica R. Endsley is a pioneer and world leader in the study and application of situation awareness in advanced systems. Debra G. Jones work is focused on designing large-scale and complex systems to support situation awareness and dynamic decision making. Completely revised and updated, liberally illustrated with actual design examples, this second edition demonstrates how people acquire and interpret information and examines the factors that undermine this process. Endsley and Jones distill their expertise and translate current research into usable, applicable methods and guidelines.

## Book Information

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## Customer Reviews

You have the most flexibility in producing a product during the design phase. Yet, the human factors (to include situational awareness) testing is often done far down stream in production, long after many of the factors have been looked down. If you don't get anything else out of the book, that is one good lesson. That said, Professor Endsley gives the reader 50 design principles to juggle that might help on a particular product. Honestly, I study this area and apply it for a living, and I was experiencing information overload! The information presented is well researched, and the provenience is clear, but if Professor Endsley could have come up with a simplified general framework then the book would have gone to five stars. In service, Rich

This book offered a well thought out approach to designing HMI screens for process control. I'm looking forward to applying the concepts of this book. My only complaint: the kindle version is not that great.

This book is a great book for researchers in the Situation Awareness area. I love the teaching approach the authors took in presenting the information.

This is a good reference book for situation awareness design. It's good as a start point for researchers in this domain.

Very well written, and thorough : very useful perspective to design for process control.

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