Situational awareness has become an increasingly salient factor contributing to flight safety and operational performance, and the research has burgeoned to cope with the human performance challenges associated with the installation of advanced avionics systems in modern aircraft. The systematic study and application of situational awareness has also extended beyond the cockpit to include air traffic controllers and personnel operating within other complex, high consequence work domains. This volume offers a collection of essays that have made important contributions to situational awareness research and practice. To this end, it provides unique access to key readings that address the conceptual development of situational awareness, methods for its assessment, and applications to enhance situational awareness through training and design.

Contents
Introduction; Part I Definitions and Theoretical Perspectives: A theory of situational assessment: implications for measuring situation awareness, Martin L. Fracker; Toward a theory of situation awareness in dynamic systems, Mica R. Endsley; Situational awareness and the cognitive management of complex systems, Marilyn J. Adams, Yvette J. Tenney and Richard W. Pew; Situation awareness in team performance: implications for measurement and training, Eduardo Salas, Carolyn Prince, David P. Baker and Lisa Shrestha; Comprehension and situation awareness, Francis T. Durso, Katherine A. Rawson and Sara Girotto. Part II Methodological Issues and Approaches: Situation awareness rating technique (SART): the development of a tool for aircrew systems design, R.M. Taylor; Direct measurement of situation awareness: validity and use of SAGAT, Mica R. Endsley; A knowledge elicitation approach to the measurement of team situation awareness, Nancy J. Cooke, Renée J. Stout and Eduardo Salas; Measuring team situation awareness in decentralized command and control environments, Jamie C. Gorman, Nancy J. Cooke and Jennifer L. Winner; Does situation awareness add to the validity of cognitive tests?, Francis T. Durso, M. Kathryn Bleckley and Andrew R. Dettel; Comparing perceptual judgment and subjective measures of spatial awareness, Matthew L. Bolton and Ellen J. Bass. Part III Applications of the SA Construct: Display formatting techniques for improving situation awareness in the aircraft cockpit, Anthony D. Andre, Christopher D. Wickens, Laura Moorman and Marianne M. Boschelli; Pilot interaction with cockpit automation: operational experiences with the flight management system, Nadine B. Sarter and David D. Woods; Pilot interaction with cockpit automation II: an experimental study of pilots' model and awareness of the flight management system, Nadine B. Sarter and David D. Woods; The role of shared mental models in developing team situational awareness: implications for training, Renée J. Stout, Janis A. Cannon-Bowers and Eduardo Salas; Cognitive ability determinants of elite pilot performance, David O'Hare; Cognitive engineering: designing for situation awareness, John M. Flach and Jens Rasmussen; Situation awareness implications of adaptive automation for information processing in an air traffic control-related task, David B. Kaber, Carlene M. Perry, Noa Segall, Christopher K. McIemento and Lawrence J. Prinzel III. Part IV Beyond Aviation: Situation awareness during driving: explicit and implicit knowledge in dynamic spatial memory, Leo J. Gugerty; Situation awareness and safety in offshore drill crews, Anne Sneddon, Kathryn Mears and Rhona Flin; Distributed situational awareness in dynamic systems: theoretical development and application of an ergonomics methodology, N.A. Stanton, R. Stewart; D. Harris; R.J. Houghton; C. Baber, R. McMaster, P. Salmon, G. Hoyle, G. Walker, M.S. Young, M. Linsell, R. Dymott and D. Green. Part V Commentary and Review: Situation awareness: a critical but ill-defined phenomenon, Nadine B. Sarter and David D. Woods; The state of situation awareness measurement: heading toward the next century, Richard W. Pew; Situation awareness catches on: What? So what? Now what?, Yvette J. Tenney and Richard W. Pew; Name index.

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