Fratricide has been defined as firing on your own forces, when mistaking them for enemy forces, which results in injury or death. Rates of fratricide incidence have been steadily increasing and the complexity of the contemporary operating environment may lead to a continuation of this trend. Although the majority of research into fratricide has focused on the development of technological decision aids, recent explorations highlight the need to emphasise the social aspects within a socio-technical framework.

This book presents and validates, via the use of case studies, a model of teamwork and decision-making factors that are associated with incidents of fratricide. In summary, it offers a review and evaluation of contemporary theoretical perspectives on teamwork and fratricide, as well as a range of accident analysis approaches. A novel theory of fratricide is then presented followed by a new methodology for assessing fratricide. Naturalistic case studies of teams are undertaken in the military domain. These studies illustrate the approach and offer early validation evidence. In closing, the book presents a series of principles designed to reduce the likelihood of fratricide in the future.

Contents
Introduction; Fratricide, expectations, situation awareness and teamwork; Application of the F3 Model to a case study of fratricide; FEAST: fratricide event analysis of systemic teamwork; It’s good to talk: explorations into the communications surrounding shoot, no-shoot decisions; The communication masking effect: why it’s not always good to talk; Is it better to be connected?; Comparison of populated models; Conclusion and recommendations; References and bibliography; Index.

About the Author
Dr Laura Rafferty completed her undergraduate studies in 2007 graduating with a BSc in Psychology (Hons) from Brunel University. In the course of this degree Laura completed two industrial placements, the second of which was working as a Research Assistant in the Ergonomics Research Group. During this seven month period Laura helped to design, run and analyse a number of empirical studies being run for the Human Factors Integration Defence Technology Centre (HFI DTC) at Brunel. Within this time Laura also completed her dissertation exploring the qualitative and quantitative differences between novices and experts within military command and control. From April 2009 Laura has been employed in the Transportation Research Group at the University of Southampton as a Project Assistant for the HFI DTC working on projects including Naturalistic Decision Making in Teams, Contemporising the Combat Estimate and compiling a Human Factors Methods Database. In July 2011 Laura was awarded a PhD in Human Factors from the University of Southampton.

Professor Stanton holds a Chair in Human Factors in the School of Civil Engineering and the Environment at the University of Southampton. He has published more than 150 peer-reviewed journal papers and 20 books on Human Factors and Ergonomics. In 1998, he was awarded the Institution of Electrical Engineers Divisional Premium Award for a co-authored paper on Engineering Psychology and System Safety. The Ergonomics Society awarded him the Otto Edholm medal in 2001 and The President's Medal in 2008 for his contribution to basic and applied ergonomics research. In 2007, The Royal Aeronautical Society awarded him the Hodgson Medal and Bronze Award with colleagues for their work on flight deck safety. Professor Stanton is an editor of the journal Ergonomics and on the editorial boards of Theoretical Issues in Ergonomics Science. Professor Stanton is a Fellow and Chartered Occupational Psychologist registered with The British Psychological Society, and a Fellow of The Ergonomics Society. He has a BSc (Hons) in Occupational Psychology from the University of Hull, an MPhil in Applied Psychology and a PhD in Human Factors from Aston University in Birmingham.

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