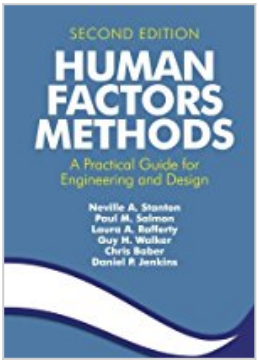




# Human Factors Methods: A Practical Guide for Engineering and Design

*By Neville A. Stanton, Paul M. Salmon, Laura A. Rafferty, Guy H. Walker, Chris Baber, Daniel P. Jenkins*



**Human Factors Methods: A Practical Guide for Engineering and Design** By Neville A. Stanton, Paul M. Salmon, Laura A. Rafferty, Guy H. Walker, Chris Baber, Daniel P. Jenkins

This second edition of Human Factors Methods: A Practical Guide for Engineering and Design now presents 107 design and evaluation methods as well as numerous refinements to those that featured in the original. The book has been carefully designed to act as an ergonomics methods manual, aiding both students and practitioners. The eleven sections represent the different categories of ergonomics methods and techniques that can be used in the evaluation and design process. Offering a 'how-to' text on a substantial range of ergonomics methods that can be used in the design and evaluation of products and systems, it is a comprehensive point of reference for all these methods. An overview of the methods is presented in chapter one, with a methods matrix showing which can be used in conjunction. The following chapters detail the methods showing how to apply them in practice. Flowcharts, procedures and examples cover the requirements of a diverse audience and varied applications of the methods. The final chapter, a new addition, illustrates the EAST method, which integrates several well-known methods into a teamwork analysis approach.

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## Editorial Review

Review

'As the necessity to consider human factors in system design and operation continues to grow, practitioners require a simple source of reference. This revised version overview of human factors methods delivers just that. While not a solution in itself, it provides an up-to-date reference for people who already have some human factors knowledge.'Erik Hollnagel, University of Southern Denmark, Denmark'There are many designers and engineers who would like a gentle guide to ergonomics tools, and this book brings together in one place essential methods with validity checks. This new paradigm of introducing ergonomics through presentation of methods is very appealing and I foresee its wide use as a reference by project managers.' Richard H.Y. So, the Hong Kong University of Science and Technology, Hong Kong SAR, China'The updated and revised version of the already highly successful handbook by Neville Stanton and his colleagues provides a valuable service to the effective application of human factors and ergonomics. As a methods cookbook, with over 100 step-by-step recipes, clear instructions, and even lots of pictures, it has a place on every practitioner's bookshelf.'Bob Hockey, Emeritus Professor of Psychology, University of Sheffield, UK'An indispensable resource written by internationally-known experts, this text is the tool that human factors engineers and designers must have to practice their profession. That it is equally vital for researchers and all serious students attests to the breadth and utility of the coverage - an instant classic.' --Peter Hancock, University of Central Florida, USA

'All in all, the revised edition of this book serves up a range of dishes for the methods-hungry Human Factors community and delivers them in a very palatable manner, making them easy to digest. I can well imagine that just as my old copy of Delia Smith is still my 'go to' book in the kitchen, this will be my 'go to' book in the office and still sitting on my bookshelf in 20 years' time.' --Ergonomics, Vol 57, Issue 11, 2014

About the Author

Professor Stanton holds a Chair in Human Factor Engineering at the University of Southampton. He has published over 160 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 Institute of Ergonomics and Human Factors awarded him the Otto Edholm medal in 2001, The President’s Medal in 2008 and the Sir Frederic Bartlett Medal in 2012 for his substantial and original 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 and the journal of Human Factors and Ergonomics in Manufacturing and Service Industries. Professor Stanton consults for a wide variety of organisations on topics such as Human Factors, Safety Cases, Safety Culture, Risk Assessment, Human Error, Product Design, Warning Design, System Design and Operation. He has also acted as an expert witness in accidents. 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. Paul Salmon is an Associate Professor in Human Factors and leader of the USCAR (University of the Sunshine Coast Accident Research) team at the University of the Sunshine Coast. Paul holds an Australian National Health and Medical Research Council (NHMRC) post doctoral training fellowship in the area of Public Health and has over 12 years experience in applied Human Factors research

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