Human Factors in Aviation. Edition No. 2

Description: This edited textbook is a fully updated and expanded version of the highly successful first edition of Human Factors in Aviation. Written for the widespread aviation community - students, engineers, scientists, pilots, managers, government personnel, etc., HFA offers a comprehensive overview of the topic, taking readers from the general to the specific, first covering broad issues, then the more specific topics of pilot performance, human factors in aircraft design, and vehicles and systems.

The new editors offer essential breath of experience on aviation human factors from multiple perspectives (i.e. scientific research, regulation, funding agencies, technology, and implementation) as well as knowledge about the science. The contributors are experts in their fields.

Topics carried over from the first edition are fully updated, several by new authors who are now at the forefront of the field. New material - which represents 50% of the volume - focuses on the challenges facing aviation specialists today. One of the most significant developments in this decade has been NextGen, the Federal Aviation Administration’s plan to modernize national airspace and to address the impact of air traffic growth by increasing airspace capacity and efficiency while simultaneously improving safety, environmental impacts and user access. NextGen issues are covered in full. Other new topics include: High Reliability Organizational Perspective, Situation Awareness & Workload in Aviation, Human Error Analysis, Human-System Risk Management, LOSA, NOSS and Unmanned Aircraft System.

- Comprehensive text with up-to-date synthesis of primary source material that does not need to be supplemented
- New edition thoroughly updated with 50% new material and full coverage of NexGen and other modern issues
- Instructor website with test bank and image collection makes this the only text offering ancillary support
- Liberal use of case examples exposes readers to real-world examples of dangers and solutions

Contents:

1. Introduction

Chapter 1: Human Factors in Aviation: An Overview
Eduardo Salas, Dan Maurino, and Michael Curtis

Chapter 2: The System Perspective on Human Factors in Aviation
Thomas B. Sheridan

Chapter 3: The System Safety Perspective
Amy R. Pritchett

Chapter 4: The Safety Culture Perspective
Manoj Patankar and Edward J. Sabin

Chapter 5: The High Reliability Organization Perspective
Sidney W. A. Dekker and David D. Woods

Foreword
Robert L. Helmreich
III. Pilot and Crew Performance Issues

Chapter 6: The Human in Flight: From Kinesthetic Sense to Cognitive Sensibility
Kathleen L. Mosier

Chapter 7: Information Processing in Aviation
Michael A. Vidulich, Christopher D. Wickens, Pamela S. Tsang and John M. Flach

Chapter 8: Managing Workload, Performance, and Situation
Frank Durso and Amy L. Alexander

Chapter 9: Group Dynamics at 35,000 Feet
Eduardo Salas, Marissa L. Shuffler and Deborah Diazgranados

Chapter 10: Flight Training and Simulation as Safety Generators
John Bent and Kwok Chan

Chapter 11: Understanding and Analyzing Human Error in Real-World Operations
R. Key Dismukes

Chapter 12: Cognitive Architectures for Human Factors in Aviation
Kevin Gluck

Chapter 13: Aircrew Fatigue, Sleep Need and Circadian Rhythmicity
Melissa M. Mallis, Siobhan Banks and David E. Dinges

IV. Human Factors in Aircraft Design

Chapter 14: Aviation Displays
Michael T. Curtis, Florian Jentsch, and John A. Wise

Chapter 15: Cockpit Automation: Still Struggling to Catch Up...
Thomas Ferris, Nadine Sarter, and Christopher D. Wickens

Chapter 16: Unmanned Aircraft Systems
Alan Hobbs

Chapter 17: Crew Station Design and Integration
Alan R. Jacobsen, David A. Graeber, and John Wiedemann

V. Vehicles and Systems

Chapter 18: The History in the Basics and the Challenges for the Future
Captain William Hamman, MD, Ph.D. with an Introduction by Captain William L. Rutherford, MD

Chapter 19: General Aviation
Stephen M. Casner

Chapter 20: Air Traffic Management
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Human Factors in Aviation. Edition No. 2
Web Address: http://www.researchandmarkets.com/reports/1766247/
Office Code: SC

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Paper back):</td>
<td>USD 96 + USD 28 Shipping/Handling</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.
* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof [ ]
First Name: ____________________________ Last Name: ____________________________
Email Address: * ____________________________
Job Title: ____________________________
Organisation: ____________________________
Address: ____________________________
City: ____________________________
Postal / Zip Code: ____________________________
Country: ____________________________
Phone Number: ____________________________
Fax Number: ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account number</td>
<td>833 130 83</td>
</tr>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB98533083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street,</td>
</tr>
<tr>
<td></td>
<td>Blackrock, Co. Dublin, Ireland.</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

Marketing Code: 

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World