

### References

- Adams, J. A., & Boulter, L. R. (1964). Spatial and temporal uncertainty as determinants of vigilance performance. *Journal of Experimental Psychology*, 52, 204-208.
- Ahlstrom, V., & Longo, K. (2000). *Computer-human interface guidelines: A revision to Chapter 8 of the human factors design guide* (DOT/FAA/CT-TN00/30). Atlantic City International Airport, NJ: Federal Aviation Administration, William J. Hughes Technical Center.
- Ahlstrom, V., & Longo, K. (2001). *Human factors design guide update (Report number DOT/FAA/CT-96/01): A revision to Chapter 8 – Computer human interface guidelines* (DOT/FAA/CT-01/08). Atlantic City International Airport, NJ: Federal Aviation Administration, William J. Hughes Technical Center.
- Ahlstrom, V., Longo, K., & Truitt, T. (2002). *Human factors design guide update (Report Number DOT/FAA/CT-96/01): A revision to Chapter 5-Automation guidelines* (DOT/FAA/CT02/11). Atlantic City International Airport, NJ: Federal Aviation Administration, William J. Hughes Technical Center.
- Amalberti, R. (1999). *Automation in aviation: A human perspective*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- American National Standards Institute. (1975). *Electrical and electronic reference designations* (ANSI Y32.16). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American National Standards Institute. (1975). *Standard graphic symbols for electrical and electronics diagrams* (ANSI Y32.2). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American National Standards Institute. (1982). *Radio frequency radiation hazard warning symbol* (ANSI C95.2). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American National Standards Institute. (1988). *American national standard for human factors engineering of visual display terminal workstations* (ANSI/HFS Standard No. 100). Santa Monica, CA: The Human Factors Society, Inc. Available from <http://www.ansi.org/>
- American National Standards Institute. (1988). *American national standard specification for sound level meters* (ANSI/ASA S1.4-1983 (R2001)). American National Standards of the Acoustical Society of America. Copies of this document may be obtained from the American National Standards Institute, 1430 Broadway, New York, NY, 10018. Available from <http://www.ansi.org/>

- American National Standards Institute. (1989). *American national standard for measuring the intelligibility of speech over communication systems* (ANSI S3.2). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American National Standards Institute. (1989). *Radiation symbol* (ANSI N2.1). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American National Standards Institute. (1993). *Environmental and facility safety signs* (ANSI Z535.2). New York: American National Standards Institute. Available from <http://www.ansi.org/>
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. (1992). *Thermal environmental conditions for human occupancy - ASHRAE Standard* (ANSI/ASHRAE 55-1992). Atlanta, GA: ASHRAE.
- Ameritech Services Incorporated. (1996). *Ameritech graphical user interface standards and design guidelines*. Chicago, IL: Robert M. Schumacher, Jr.
- Ameritech Services Incorporated. (1998). *Ameritech character-based interface standards introduction*. Chicago, IL: Ameritech Corporation.
- Andes, R. C. (1987). Adaptive aiding in complex systems: An implementation. In *Proceedings of the 1987 IEEE Conference on Systems, Man, and Cybernetics*. New York: Institute of Electrical and Electronics Engineers.
- Andes, R. C., & Hunt, R. M. (1989). *Adaptive aiding for human-computer control: Final report and future directions of research* (Tech. Report 086084-3240-51). Dayton, OH: AAMRL Laboratory.
- Angiolillo, J. S., & Roberts, L. A. (1991). What makes a manual look easy to use? In *Proceedings of the Human Factors Society 35th Annual Meeting*. Santa Monica, CA: Human Factors Society, 222-224.
- Ankrum, D. R., Hansen, E. E., & Nemeth, K. J. (1995). The vertical horopter and the angle of view. In A. Grieco, G. Molteni, B. Piccoli & E. Occhipinti (Eds.), *Work with display units '94* (pp. 131-136). Amsterdam: Elsevier.
- Ankrum, D. R., & Nemeth, K. J. (1995). Posture, comfort and monitor placement. *Ergonomics in design*, April, 7-9.
- Apple Computer Incorporated. (1992). *Macintosh human interface guidelines*. Reading, MA: Addison-Wesley Publishing Company.
- Apple Computer Incorporated. (1995). *Macintosh human interface guidelines*. Reading, MA: Addison-Wesley Publishing Company.

- Avery, L. W., & Bowser, S. E. (Eds.). (1992). *Department of Defense human-computer interface style guide (Version 2.0, DOE HFDG ATCCS V2.0 also known as DOD HCISG V2)*. Washington, DC: Defense Information Systems Agency.
- Bainbridge, L. (1983). Ironies of automation. *Automatica*, 19, 775-770.
- Baker, C. H. (1962). *Man and radar displays*. New York: Macmillan.
- Balci, R., & Aghazadeh, F. (1998). Influence of VDT monitor positions on discomfort and performance of users with or without bifocal lenses. *Journal of Human Ergol: Tokyo*, 27 (1-2), 62-69.
- Barnes, M. J. (1981). *Human information processing guidelines for decision-aiding displays* (Tech. Report NWC-TM-4605). China Lake, CA: Naval Weapons Center.
- Barnes, M. J. (1985). An information-processing approach to decision aiding. In *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics* (pp. 636-640). New York: Institute of Electrical and Electronics Engineers.
- Bauer, D., & Cavonius, C. (1980). Improving the legibility of visual display units through contrast reversal. In E. Grandjean & E. Vigliani (Eds.), *Ergonomic aspects of visual display terminals*. London: Taylor and Francis.
- Billings, C. E. (1991). *Human-centered aircraft automation: A concept and guidelines*. Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- Billings, C. E. (1996). *Human-centered aviation automation: Principles and guidelines*. Moffett Field, CA: National Aeronautics and Space Administration, Ames Research Center.
- Billings, C. E. (1997). *Aviation automation: The search for a human-centered approach*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Boff, K. R., & Lincoln, J. E. (1988). *Engineering data compendium: Human perception and performance*. Wright-Patterson Air Force Base, OH: AAMRL.
- Bowers, C., Deaton, J., Oser, R., Prince, C., & Kolb, M. (1995). Impact of automation on aircrew communication and decision-making performance. *The International Journal of Aviation Psychology*, 5, 145-167.
- Cardosi K. M., & Murphy E. D. (1995). *Human factors checklist for the design and evaluation of ATC systems* (DOT/FAA/RD-95/3.1, DOT-VNTSC-FAA-95-3.1). Washington, DC: United States Department of Transportation, Office of Aviation Research.

- Carlow International Incorporated. (1992). *Human-computer interface guidelines* (DSTL-92-007). Greenbelt, MD: Goddard Space Flight Center, Software Automation Systems Branch (Code 522).
- Casali, S. P. (1992). Cursor control device use by persons with physical disabilities: Implications for hardware and software design. In *Proceedings of the Human Factors Society 36th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 311-315.
- Cohen, M. S., Parasuraman, R., & Freeman, J. T. (1998). *Trust in decision aids: A model and its training implications* (Tech. Report USAATCOM TR 97-D-4). Arlington, VA: Cognitive Technologies, Inc.
- Colquhoun, W. P. (1967). Sonar target detection as a decision process. *Journal of Applied Psychology*, 51, 187-190.
- Cooper, M. B., Daghish, H. N., & Adams, J. A. (1979). Reader preference for report typefaces. *Applied Ergonomics*, 10 (2), 66-70.
- Costa, G. (1999). Fatigue and biological rhythms. In D. J. Garland, J. A. Wise & V. D. Hopkin, (Eds.) *Handbook of Aviation Human Factors*. (pp. 235-255). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- CTA Incorporated. (1996). *User-interface guidelines* (DSTL-95-033). Greenbelt, MD: Goddard Space Flight Center (Code 520).
- Danaher, J. W. (1980). Human error in ATC system operation. *Human Factors*, 22, 535-545.
- Davies, D. R., Lang, L., & Shackleton, V. J. (1973). The effects of music and task difficulty on performance at a visual vigilance task. *The British Journal of Psychology*, 64, 383-389.
- Deaton, J. E., & Parasuraman, R. (1993). Sensory and cognitive vigilance: Age, event rate, and subjective workload. *Human Performance*, 4, 71-97.
- Defense Information Systems Agency. (1995). *User interface specifications for the Defense Information Infrastructure (DII) (Version 2.0 Preliminary Draft)*. Washington, DC: Defense Information Systems Agency, Joint Interoperability and Engineering Organization.
- Defense Information Systems Agency (DISA). (1996). *Department of Defense human computer interface style guide. Department of Defense technical architecture framework for information management Vol. 8, (Version 3.0)*. Washington, DC: Defense Information Systems Agency, Joint Interoperability and Engineering Organization.

- Dember, W. N., Warm, J. S., Nelson, W. T., Simons, K. G., Hancock, P. A., & Gluckman, J. P. (1993). The rate of gain of perceived workload in sustained attention. In *Proceedings of the Human Factors Society 37<sup>th</sup> Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1388-1392.
- Department of Defense. (1961). *Electronical and electronic reference designations*. (MIL-STD-16). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1963). *Designations for electric power switchgear devices and industrial control devices* (MIL-STD-27A). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1963). *Mechanical symbols* (MIL-STD-17B-1). Alexandria, VA: Defense Supply Agency. (Superceded by ASTM-F1000, ASTM-F856, or ASME).
- Department of Defense. (1963). *Mechanical symbols for aeronautical, aerospacecraft, and spacecraft use* (MIL-STD-17B-2). Alexandria, VA: Defense Supply Agency.
- Department of Defense. (1979). *Human engineering requirements for military systems, equipment, and facilities* (MIL-STD-46855B). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1981). *Abbreviations for use on drawings and in specifications, standards and technical documents* (MIL-STD-12D). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1983). *Trusted computer system evaluation criteria* (DOD-5200.28-STD). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1984). *Legends for use in aircrew stations and on airborne equipment* (MIL-STD-783D). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1985). *Department of defense password management guideline* (CSC-STD-002-85). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1985). *Specification practices* (MIL-STD-490A). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1987). *User/computer interface* (MIL-STD-1801). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1988). *Preparation of military standards, handbooks, and bulletins* (MIL-STD-962B). Philadelphia, PA: Navy Publishing and Printing Office.

- Department of Defense. (1989). *Human engineering design criteria for military systems, equipment and facilities* (MIL-STD-1472D). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1989). *Human engineering guidelines for management information systems* (MIL-HDBK-761A). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1989). *Standard general requirements for electronic equipment* (MIL-STD-454M). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1990). *Fuses: Instrument, power, and telephone (nonindicating), style F05 (no s/s document)*. (MIL-F-15160/5C). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1990). *Human engineering performance requirements for systems* (MIL-STD-1800A). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1990). *Identification coding and application of hookup and lead wire* (MIL-STD-681). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1990). *Identification, marking, and color coding of electrical cable and cords*. (MIL-STD-686C). Philadelphia, PA: Navy Publishing and Printing Office. Available from <http://astimage.daps.dla.mil/quicksearch/>
- Department of Defense. (1990). *Standard general requirements for color and marking of Army material* (MIL-STD-1473). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1991). *Anthropometry of U.S. military personnel* (DOD-HDBK-743A). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1991). *Design criteria standard – aircrew station alerting systems* (MIL-STD-411). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1992). *Human factors engineering design for Army materiel* (MIL-HDBK-759B). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1993). *Identification, marking of U.S. military property*. (MIL-STD-130H). Philadelphia, PA: Navy Publishing and Printing Office. Available from <http://astimage.daps.dla.mil/quicksearch/>
- Department of Defense. (1995). *General guidelines for electronic equipment* (MIL-HDBK-454). Philadelphia, PA: Navy Publishing and Printing Office.

- Department of Defense. (1995). *Human engineering design guidelines*. (MIL-HDBK-759C). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1995). *Manuals, interactive, electronic, technical: General content, style, format, and user-interaction requirements* (MIL-M-87268 also known as MIL-M-GCSFUI). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1995). *Marking of connections for electrical assemblies* (MIL-STD-195). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1996). *Markings, functions and hazard designations of hose, pipe, and tube lines for aircraft missile and space systems* (MIL-STD-1247) (cancelled). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1996). *Standard general requirements for color and marking of Army material* (MIL-STD-1473 / superceded by MIL-HDBK-1473). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1996). *Technical architecture framework for information management. Volume 8: DoD Human computer interface style guide. Version 3.0*. Washington, DC: Defense Information Systems Agency/Center for Information Management DISA/CIM.
- Department of Defense. (1998). *Aircraft application of nonslip walkway, coating and matting* (MIL-W-5050). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1998). *Nonslip walkway compound and nonslip walkway matting* (MIL-W-5044). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense. (1999). *Design criteria standard-human engineering* (MIL-STD-1472F). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Defense (1999). *Human engineering design criteria for military systems, equipment and facilities* (MIL STD 1472F). Philadelphia, PA: Navy Publishing and Printing Office.
- Department of Energy. (1985). *Human factors design guidelines for maintainability of department of energy nuclear facilities* (UCRL-15673). Washington, DC: United States Department of Energy.
- Department of Energy. (1992). *Human factors engineering design criteria* (DOE-HFAC1). Washington, DC: United States Department of Energy.
- Department of Energy. (2001). *Human factors/ergonomics handbook for the design for ease of maintenance* (DOE-HDBK-1140). Washington, DC: United States Department of Energy.

- Department of the Air Force. (1980). *Human factors engineering* (AFSC DH 1-3). Wright-Patterson AFB, OH: ASD/ENESS.
- Department of the Navy. (1992). *User interface specifications for Navy command and control systems (Version 1.2)* (DON UISNCCS). San Diego, CA: NCCOSC, RDT&E Division.
- Department of Transportation. (1975). *FAA glossary* (FAA Order 1000.15A). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1982). *Occupational safety and health* (FAA Order 3900.19A). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1984). *Technical instruction book manuscript: electronic, electrical, and mechanical equipment, requirements for preparation of manuscript and production of books* (FAA-D-2494/b). Washington, DC: Martin Marietta Air Traffic Systems.
- Department of Transportation. (1985). *Fundamental considerations of lightning protection grounding, bonding, and shielding* (FAA Order 6950.2C). Washington, DC: ASE-600, Federal Aviation Administration.
- Department of Transportation. (1985). *Hearing conservation program* (FAA Order 3910.4). Washington, DC: ASE-600, Federal Aviation Administration.
- Department of Transportation. (1989). *FAA automated information systems security handbook* (FAA Order 1600.54B). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1989). *Technical surveillance countermeasures (TSCM) program* (FAA Order 1600.2C). Springfield, VA: National Technical Information Service. Also available from <http://isddc.dot.gov>
- Department of Transportation. (1991). *General maintenance handbook for airway facilities* (FAA Order 6000.15). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1991). *Polychlorinated Biphenyl (PCBs) in the National Airspace System* (FAA Order 1050.14). Springfield, VA: National Technical Information Service. Also available from <http://isddc.dot.gov>
- Department of Transportation. (1992). *FAA Directives system*. (FAA Order 1320.1D). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1992). *Standards for preparing, printing, and distributing Federal Aviation Administration, formal technical reports* (FAA Order 1700.8D). Springfield, VA: National Technical Information Service.

- Department of Transportation. (1993). *Electronic equipment, general requirements specification* (FAA-G-2100F). Washington, DC: ASE-600, Federal Aviation Administration.
- Department of Transportation. (1993). *Instructions for writing equipment and facility directives modifications, maintenance technical handbooks, and system support directives* (FAA Order 1320.58). Springfield, VA: National Technical Information Service.
- Department of Transportation. (1996). *Human factors design guide for acquisition of commercial-off-the-shelf subsystems, non-developmental items, and developmental systems* (Report Number DOT/FAA/CT-96/01). Atlantic City International Airport, NJ: Federal Aviation Administration, William J. Hughes Technical Center
- Department of Transportation. (1997). *Human factors design guide for acquisition of commercial-off-the-shelf subsystems, non-developmental items, and developmental systems* (HFDG Version 1.1). Atlantic City International Airport, NJ: Federal Aviation Administration, William J. Hughes Technical Center.
- Department of Transportation. (1999). *Occupational safety and health* (FAA Order 3900.19B). Springfield, VA: National Technical Information Service.
- Derrick, W. L. (1988). Dimensions of operator workload. *Human Factors*, 30(1), 95-11C.
- Drury, C. G. (1998). Human factors in aviation maintenance and inspection. In *Human factors guide for aviation maintenance, Chapter 9: Automation*. Also available from World Wide Web <http://hfskyway.faa.gov>
- Dzindolet, M. T., Pierce, L. G., Beck, H. P., & Dawe, L. A. (1999). Misuse and disuse of automated aids. In *Proceedings of the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting*. Santa Monica, CA: Human Factors Society, 339-343.
- Edwards, A. D. N. (1988). The design of auditory interfaces for visually disabled users. In *Proceedings of CHI '88 Conference on Human-Computer Interaction*. New York: Association for Computing Machinery, 83-88.
- Edwards, E. (1976). Some aspects of automation in civil transport aircraft. In T.B. Sheridan & G. Johannsen (Eds.), *Monitoring behavior and supervisory control*. New York: Plenum.
- Electric Power Research Institute. (1984). *Human factors guide for nuclear power plant control room development* (EPRI NP-36591). Palo Alto, CA: Research Reports Center.
- Electric Power Research Institute. (1988). *Effective plant labeling and coding* (EPRI NP 6209). Palo Alto, CA: Research Reports Center.

- Endsley, M. R., & Kiris, E. O. (1995). The out-of-the-loop performance problem and level of control in automation. *Human Factors*, 37, 381-394.
- Farrell, R. J., & Booth, J. M. (1975). *Design handbook for imagery interpretation equipment*. Seattle, WA: Boeing Aerospace Company.
- Federal Aviation Administration, (last updated April 29, 1999) FAA Occupational Safety and Health program (FAA Order 3900.19B). Washington, DC. Also available from <http://www.aee.faa.gov/aee-200/FINAL3900.PDF>
- Federal Aviation Administration. (2000). *Contractions* (FAA order 7340.1). FAA Headquarters, Flight Service Operations Division, ATP-300, 800 Independence Avenue, SW, Washington, DC. Also available from <http://www1.faa.gov/ATpubs/CNT/1-1.htm>
- Forester, J. A. (1987). An assessment of variable format information presentation. *Information management and decision making in advanced airborne weapon systems*. AGARD Conference. Toronto, Ontario, Canada, 9/1-13.
- Galitz, W. O. (1993). *User-interface screen design (3rd edition)*. Wellesley, MA: QED Publishing Group.
- Galster, S., Duley, J. A., Masalonis, A., & Parasuraman, R. (2001). Air traffic controller performance and workload under mature free flight: Conflict detection and resolution of aircraft self-separation. *International Journal of Aviation Psychology*, 11, 71-93.
- Garland, D. J., & Hopkin, V. D. (1994). Controlling automation in future air traffic control: The impact on situational awareness. In R. D. Gilson, D. J. Garland, & J. M. Koonce (Eds.), *Situational awareness in complex systems: Proceedings of a CAHFA Conference* (pp. 179-197). Daytona Beach, FL: Embry Riddle Aeronautical University Press.
- General Services Administration. (1985). *Uniform federal accessibility standards*. Washington, DC: General Services Administration.
- General Services Administration. (1993). *Metric units for general use by the federal government*. (FED-STD-376). Washington, DC: General Services Administration, Federal Supply Service.
- General Services Administration. (1994). *Colors used in government procurement*. (FED-STD-595). Washington, DC: General Services Administration, Federal Supply Service.
- General Services Administration. (2000). *Section 508 of the Rehabilitation Act of 1973: Electronic and Information Technology Accessibility Standards*. Washington, DC: Office of Technical and Information Services.

- Gribbons, W. M. (1992). Organization by design: Some implications for structuring information. In *Technical Writing and Communication*, 22, (pp. 57-75).
- Harris, W. C., Hancock, P. A., Arthur, E. J., & Caird, J. K. (1995). Performance, workload, and fatigue changes associated with automation. *The International Journal of Aviation Psychology*, 5, 169-185.
- Hartley, J. (1978). *Designing instructional text*. New York: Nichols.
- Hilburn, B., Jorna, P. G. A. M., Byrne, E. A., & Parasuraman, R. (1996). *The effect of adaptive Air Traffic Control (ATC) decision aiding on controller mental workload*. National Aerospace Laboratory Technical Publication (NLR TP 96216 L). The Netherlands.
- Hilburn, B., Jorna, P. G. A. M., & Parasuraman, R. (1995). The effect of advanced ATC automation on mental workload and monitoring performance: An empirical investigation in Dutch airspace. In *Proceedings of the 8<sup>th</sup> International Symposium on Aviation Psychology*. Columbus, OH: The Ohio State University.
- Hopkin, V. D. (1988). Air Traffic Control. In E. L. Wiener & D. C. Nagel (Eds.), *Human factors in aviation* (pp. 639-663). San Diego, CA: Academic Press.
- Houghton-Alico, D. (1985). *Creating computer software user guides: From manuals to menus*. New York: McGraw-Hill.
- Illuminating Engineering Society of North America. (1993). *Lighting handbook: Reference & application* (9th ed.). New York: Illuminating Engineering Society of North America.
- Inagaki, T. (1999). Situation-adaptive autonomy for time-critical takeoff decisions. *International Journal of Modeling and Simulation*, 19(4).
- Institute of Electrical and Electronics Engineers. (1984). *Standard graphic symbols for logic functions* (ANSI/IEEE 91). New York: Institute of Electrical and Electronics Engineers.
- Institute of Electrical and Electronics Engineers. (1986). *Standard graphic symbols for electrical and electronics diagrams*. (ANSI/IEEE 315A 1986). New York: American National Standards Institute.
- Institute of Electrical and Electronics Engineers. (1991). *American national standard letter symbols for units of measurement (SI units, customary inch-pound units, and certain other units)* (ANSI/IEEE 260-1978). New York: Institute of Electrical and Electronics Engineers.
- Institute of Electrical and Electronics Engineers. (1992). *American national standard for metric practice* (ANSI/IEEE 268-1992). New York: Institute of Electrical and Electronics Engineers.

- International Organization for Standardization. (1985). *Information processing - Documentation symbols and conventions for data, program and system flowcharts, program network charts and system resources charts (ANSI/ISO 5807)*. Geneva, Switzerland: International Organization for Standardization.
- Israelski, E. W. (1977). *Human factors handbook for telecommunications product design*. Whippany, NJ: AT&T Bell Laboratories.
- Jaschinski, W., Heuer, H., & Kylian, H. (1998). Preferred position of visual displays relative to the eyes: A field study of visual strain and individual differences. *Ergonomics*, 41 (7), 1034-1049.
- Jaschinski-Kruza, W. (1990). On the preferred viewing distances to screen and document at VDU workplaces. *Ergonomics*, 33 (8), 1055-1063.
- Johnson, R. F. (1984). *Anthropometry of clothing of U.S. Army ground troops and combat vehicle crewmen (NRDEC 54-84/034)*. Natick, MA: United States Army Natick Research, Development, & Engineering.
- Joyce, R. P., Chenzoff, A. P., Mulligan, J. F., & Mallory, W. J. (1973). *Fully proceduralized job performance aids: Draft military specification for organizational and intermediate maintenance (AFHRL-TR-73-43(I))*. Brooks Air Force Base, TX: Air Force Human Resources Laboratory.
- Kanis, H. (1993). Operation of controls on consumer products by physically impaired users. *Human Factors*, 35, 305-328.
- Keane, J. (1992). *Human computer interface style guide (Version 1.0 / DISA HCISG)*. Washington, DC: Defense Information Systems Agency.
- Krimsky, E. (1948). *The management of binocular imbalance*. Philadelphia, PA: Lea and Febiger.
- Kroemer, K. H. E., Kroemer, H. J., & Kroemer-Elbert, K. E. (1990). *Engineering physiology: Bases of human factors/ergonomics*. New York: Van Nostrand Reinhold.
- Ladner, R. E. (1988). Public Law 99-506, "Section 508" Electronic equipment accessibility for disabled workers [Panel discussion]. In *Proceedings of CHI'88 Conference on Human-Computer Interaction* (pp. 219-222). New York: Association for Computing Machinery.
- Lanzetta, T. M., Dember, W. N., Warm, J. S., & Berch, D. B. (1987). Effects of task type and stimulus homogeneity on the event rate function in sustained attention. *Human Factors*, 29, 625-633.

- Lee, J. (1992). *Trust, self-confidence, and operators' adaptation to automation*. Unpublished doctoral thesis, University of Illinois, Champaign.
- Lee, J., & Moray, N. (1992). Trust, control strategies and allocation of function in human-machine systems. *Ergonomics*, 35, 1243-1270.
- Lehner, P. E., Mullin, T. M., & Cohen, M. S. (1989). Adaptive decision aids: Using fallible algorithms to support decision making. In *Proceedings of the IEEE International Conference of Systems, Man, and Cybernetics, IEEE, New York*, 893-894.
- Lerch, F., & Prietula, M. (1989). How do we trust machine advice? In G. Salvendy & M. Smith (Eds.), *Designing and using human-computer interfaces and knowledge-based systems* (pp. 410-419). Amsterdam: Elsevier Science.
- Mackworth, N. H. (1948). The breakdown of vigilance during prolonged visual search. *Quarterly Journal of Experimental Psychology*, 1, 6-21.
- Mackworth, N. H. (1961). Researches on the measurement of human performance. In H.W. Sinaiko (Ed.), *Selected papers on human factors in the design and use of control systems* (pp. 174-331). (Reprinted from Medical research council Special Report Series 268, London, H. M. Stationary Office, 1950).
- Martin, S. M., & Dong, J. (1999). *IBM Ease of Use. Cluster analysis for web site organization*. Internetworking: The newsletter of the Internet Technical Group v. 2.3.
- Masalonis, A. J., & Parasuraman, R. (1999). Trust as a construct for evaluation of automated aids: Past and future theory and research. In *Proceedings of the human factors and ergonomics society 43<sup>rd</sup> annual meeting*. Santa Monica, CA: Human Factors Society, 184-188.
- Matthews, G., Davies, D. R., Westerman, S. J., & Stammers, R. B. (2000). *Human Performance: Cognition, stress, and individual differences*. Hove, East Sussex, UK: Psychology Press.
- Merideth, C., & Edworthy, J. (1994). Sources of confusion in intensive therapy unit alarms. In N. Stanton (Ed.), *Human factors in alarm design* (pp. 208-219). London: Taylor & Francis Ltd.
- Microsoft Corporation. (1992). *The Windows interface – An application design guide*. Redmond, WA: Microsoft Press.
- Milösević, S. (1974). Effect of time and space uncertainty on a vigilance task. *Perception & Psychophysics*, 15, 331-334.
- Morgan, C., Cook, J., Chapanis, A., & Lund, M. (1963). *Human engineering guide to equipment design*. New York: McGraw-Hill.

- Morris, N. M., Rouse, W. B., & Ward, S. L. (1985). Information Requirements for effective human decision making in dynamic task allocation. In *Proceedings of the 1985 IEEE Conference on Systems, Man, and Cybernetics, IEEE, New York*, 720-724.
- Morris, N. M., & Zee, T. A. (1988). *Adaptive aiding for human-computer control: Evaluation of an enhanced task environment* (Final Report for Project 086084-3240-51). Norcross, GA: Search Technology.
- Morrison, J. G., Cohen, D., & Gluckman, J. P. (1993). Prospective principles and guidelines for the design of adaptively automated crewstations. In J.G. Morrison (Ed.), *The adaptive function allocation for intelligent cockpits (AFAIC) program: Interim research and guidelines for the application of adaptive automation* (Tech. Report No. NAWCADWAR-93931-60). Warminster, PA: Naval Air Warfare Center, Aircraft Division.
- Morrison, J. G., Gluckman, J. P., & Deaton, J. E. (1990). *Adaptive function allocation for intelligent cockpits. Cockpit automation study 1: Baseline study* (Tech. Report NADC-91028-60). Warminster, PA: NADC.
- Mosier, K. L., & Skitka, L. J. (1996). Human decision makers and automated decision aids: Made for each other? In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Mosier, K. L., & Skitka, L. J. (1999). Automation use and automation bias. In *Proceedings of the human factors and ergonomics society 43<sup>rd</sup> annual meeting*. Santa Monica, CA: Human Factors Society, 344-348.
- Mosier, K. L., Skitka, L. J., Dunbar, M., Burdick, M., McDonnell, L., & Rosenblatt, B. (1998). Automation bias and errors: Are teams better than individuals? In *Proceedings of the 42<sup>nd</sup> Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors Society, 201-205.
- Mosier, K. L., Skitka, L. J., Heers, S., & Burdick, M. D. (1997). Patterns in the use of cockpit automation. In M. Mouloua & J. Koonce (Eds.), *Human-automation interaction: Research and practice*. (pp. 167-173). Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Mosier, K. L., Skitka, L. J., & Korte, K. J. (1994). Cognitive and social psychological issues in flight crew/automation interaction. In M. Mouloua & R. Parasuraman (Eds.), *Human performance in automated systems: Current research and trends*. (pp. 191-197). Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.

- Murch, G. M. (1987). Colour graphics - Blessing or ballyhoo? in R.M. Baecker & W.A.S. Buxton (Eds.), *Readings in human-computer interaction - A multidisciplinary approach* (pp. 333–341). Los Altos, CA: Morgan Kaufmann.
- Mynatt, E. D., & Edwards, W. K. (1992). Mapping GUIs to auditory interfaces. In *Proceedings of the ACM Symposium on User Interface Software and Technology* (pp. 61-70). New York: Association for Computing Machinery.
- National Aeronautics and Space Administration. (1989). *Man-systems integration standards* (NASA-STD-3000A). Houston, TX: National Aeronautics and Space Administration.
- National Air Traffic Services (NATS). (1999). *Human Factors Guidelines Database*. Christchurch, UK: National Air Traffic Services, Human Factors Unit.
- National Research Council. (1993). *Workload transition: Implications for individual and team performance*. C. D. Wickens, B. Messick Huey, L.W. Green (Eds.). Washington, DC: National Academy Press.
- National Research Council. (1997). *Flight to the future: Human factors in air traffic control*. C. D. Wickens, A. S. Mavor, R. Parasuraman, & J. P. McGee (Eds.). Washington, DC: National Academy Press.
- National Research Council. (1998). *The future of air traffic control: Human operators and automation*. C. D. Wickens, A. S. Mavor, R. Parasuraman, & J. P. McGee (Eds.). Washington, DC: National Academy Press.
- National Research Council, System Security Study Committee. (1990). *Computers at risk: Safe computing in the information age*. Washington, DC: National Academy Press.
- Neilson, J. (2000). *Designing Web Usability*. Indianapolis, IN: New Riders Publishing.
- Norico, A. F., & Stanley, J. (1989). Adaptive human-computer interfaces: A literature survey and perspective. *IEEE Transactions on Systems, Man, and Cybernetics*, 19(2), 399-408.
- Nuclear Regulatory Commission. (1981). *Human-system interface design review guidelines* (NUREG-0700 Rev. 1, Vol. 1). Washington, DC: United States Nuclear Regulatory Commission.
- Nuclear Regulatory Commission. (1994). *Human factors engineering guidance for the review of advanced alarm systems* (NUREG/CR-6015). Washington, DC: United States Nuclear Regulatory Commission.
- Nuclear Regulatory Commission. (1996). *Human-system interface design review guidelines* (NUREG-0700 Rev. 1, Vol. 1). Washington, DC: United States Nuclear Regulatory Commission.

- Open look. (1990). *Graphical user interface application style guidelines* (GUIASG). Reading, MA: Addison-Wesley.
- Open Software Foundation. (1993). *OSF/Motif Style Guide*. Englewood Cliffs, NJ: Prentice Hall.
- Owens, D., & Wolf-Kelly, K. (1987). Near work, visual fatigue, and variations of oculomotor tonus. *Investigative ophthalmology and visual science*, 28, 743 - 749.
- Parasuraman, R., Hancock, P. A., & Olofinboba, O. (1997). Alarm effectiveness in driver-dash centered collision-warning systems. *Ergonomics*, 39, 390-399.
- Parasuraman, R., Hilburn, B., Molloy, R., & Singh, I. (1991). *Adaptive automation and human performance III. Effects of practice on the benefits and costs of automation shifts* (Tech. Report CSL-N91-2). Washington, DC: The Catholic University of America, Cognitive Science Laboratory.
- Parasuraman, R., Molloy, R., Mouloua, M., & Hilburn, B. (1996). Monitoring of automated systems. In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications* (pp. 91-115). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Parasuraman, R., Molloy, R., & Singh, I. L. (1993). Performance consequences of automation-induced "complacency." *The International Journal of Aviation Psychology*, 3, 1-23.
- Parasuraman, R., & Mouloua, M. (Eds.) (1996). *Automation and human performance: theory and applications*. New Jersey: Lawrence Erlbaum. (Refereed, International).
- Parasuraman, R., Mouloua, M., & Hilburn, B. (1998). *Adaptive aiding and adaptive task allocation enhance human-machine interaction*. In Scerbo, M., & Mouloua, M. (Eds.). *Automation Technology and Human Performance: Current Research and Future Trends*. (Refereed, International).
- Parasuraman, R., & Riley, V. (1997). Humans and automation: Use, misuse, disuse, abuse. *Human Factors*, 39(2), 230-253.
- Parasuraman, R., Sheridan, T. B., & Wickens, C. D. (2000). A model for types and levels of human interaction with automation. *IEEE Transactions on Systems, Man, and Cybernetics*, 30, 286-297.
- Patterson, R. D. (1982). *Guidelines for auditory warning systems on civil aircraft*. CAA paper 82017. London: Civil Aviation Authority.

- Riley, V. (1996). Operator reliance on automation: Theory and data. In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications* (pp. 19-35). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Ripple, P. (1952). Variation of accommodation in vertical directions of gaze. *American Journal of Ophthalmology*, 35, 1630-1634.
- Roebuck, J. A., Kroemer, K. H. E., & Thomson, W. G. (1975). *Engineering anthropometry methods*. New York: Wiley.
- Rogers, W. H., Schutte, P. C., & Latorella, K. A. (1996). Fault management in aviation systems. In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications* (pp. 281-317). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Rouse, W. B. (1988). Adaptive aiding for human/computer control. *Human Factors*, 30(4), 431-443.
- Rubens, P. (1992). *Science and technical writing: A manual of style*. New York: Holt.
- Rudisill, M. (1994). Flight crew experience with automation technologies on commercial transport flight decks. In M. Mouloua, & R. Parasuraman (Eds.), *Human performance in automated systems: Current research and trends*. In *Proceedings of the First Automation Technology and Human Performance Conference* (pp. 203-211). Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Rudisill, M. (1995). Line pilots' attitudes about and experience with flight deck automation: Results of an international survey and proposed guidelines. In R.S. Jensen & L.A. Rakovan (Eds.), *Proceedings of the Eighth International Symposium on Aviation Psychology*, 288-293.
- Sanders, M. S., & McCormick, E. J. (1993). *Human factors engineering and design*. New York: McGraw-Hill.
- Sarter, N. B., & Woods, D. D. (1994). Pilot interaction with cockpit automation II: An experimental study of pilots' model and awareness of the flight management system. *The International Journal of Aviation Psychology*, 4, 1-28.
- Sarter, N. B., & Woods, D. D. (1995). How in the world did we ever get into that mode? Mode error and awareness in supervisory control. *Human Factors*, 37(1), 5-19.
- Scadden, L. A., & Vanderheiden, G. C. (1988). *Considerations in the design of computers and operating systems to increase their accessibility to persons with disabilities (Version 4.2)*. Madison, WI: Trace Research and Development Center.

- Scerbo, M. W. (1996). Theoretical perspectives on adaptive automation. In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications* (pp. 37-63). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Scerbo, M. W., & Mouloua, M. (1999). *Automation technology and human performance: Current research and trends*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Sen, P. (1984). Adaptive channels and human decision-making. *IEEE Transactions on systems, man and cybernetics*, 14(1), 120-130.
- Sheehan, J. (1995). *The tyranny of automation*. Professional Aviation Briefing. Retrieved April 3, 2000 from the World Wide Web: <http://www.faa.gov/avr/NEWS/Previous/autom.htm>
- Sheridan, T. B. (1970). On how often the supervisor should sample. *IEEE Transactions on Systems Science and Cybernetics*, SSC-6, 140-145.
- Sheridan, T. B. (1996). Speculations on future relations between humans and automation. In *Automation and human performance: theory and applications*. R. Parasuraman & M. Mouloua, (Eds.). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Shneiderman, B. (1998). *Designing the user interface* (3rd edition). Reading, MA: Addison-Wesley.
- Simpson, H., & Casey, S. M. (1988). *Developing effective user documentation*. New York: McGraw-Hill.
- Smith, S. L., & Mosier, J. N. (1986). *Guidelines for designing user interface software* (ESD-TR-86-278). Hanscom AFB, MA: Electronic Systems Division.
- Snook, S. H., Ciriello, V. M. (1991). The design of manual handling tasks: revised tables of maximum acceptable weights and forces. *Ergonomics*, 34 (9): 1197 – 1213.
- Spyridakis, J. H., & Wenger, M. J. (1992). Writing for human performance: Relating reading research to document design. *Technical Communications*, 39, 202-215.
- Standard Terminal Automation Replacement System Human Factors Team. (1997). *Standard terminal automation replacement system human factors review supporting documents*. Unpublished manuscript.
- Standard Terminal Automation Replacement System Human Factors Team. (1998). *Report of the Computer-human interface re-evaluation of the standard terminal automation replacement system monitor and control workstation*. Unpublished manuscript.

- Stanton, N., & Edworthy, J. (1994). Towards a methodology for constructing and evaluating representational auditory alarm displays. *Contemporary Ergonomics*, 360-365.
- System Specification for Communication System Segment*. (1986). Springfield, VA: National Technical Information Service.
- Teitelbaum, R. & Granda, R. (1983). The effects of positional consistency on searching menus for information. In *Proceedings of the CHI '83 Human Factors in Computer Systems*, 150-153.
- The Rehabilitation Act of 1973, P.L. 99-506.
- Title 29. *Occupational health and safety standards* (OSHA 29 C.F.R.). Rehabilitation Act of 1973, 29 U.S.C. § 794 et seq. (amended 1974). Part 1910. Occupational Health and Safety Standards (29 CFR 1910). Washington, DC.
- Tsubota, K., & Nakamori, K. (1993). Dry eyes and video display terminals. *New England Journal of Medicine*, 328 (8), 584.
- Tyler, S. W., & Treu, S. (1989). An interface architecture to provide adaptive task-specific context for the user. *International Journal of Man-Machine Studies*, 30, 303-327.
- Tyrrell, R., & Leibowitz, H. (1990). The relation of vergence effort to reports of visual fatigue following prolonged near work. *Human Factors*, 32 (3), 341-357.
- Uniform Federal Accessibility Standard (UFAS). (1988). 41 CFR Ch101 subpart 101-19.6 Appendix A. Available online from <http://www.access-board.gov>
- United States Code of Federal Regulations Title 10 Part 20. Standards for protection against radiation (10 CFR 20). Government Printing Office.
- United States Code of Federal Regulations Title 21, Part 1040. Performance standards for light emitting equipment (29 CFR 1910).
- United States Code of Federal Regulations Title 29 Part 1910. Occupational Health and Safety Standards (OSHA, 29 CFR 1910). Government Printing Office.
- United States Code of Federal Regulations Title 29 Part 1926. *Safety and health regulations for construction* (OSHA, 29 CFR 1926). Government Printing Office.
- United States Government Printing Office. (1984). *Style Manual*. Washington, DC: United States Government Printing Office.

- VanCott, H. P., & Kinkade, R. G. (1972). *Human engineering guide to equipment design*. Washington DC: United States Government Printing Office.
- Vanderheiden, G. C., & Vanderheiden, K. R. (1991). *Accessible design of consumer products: Guidelines for the design of consumer products to increase their accessibility to people with disabilities or who are aging*. Madison, WI: Trace Research and Development Center.
- Veridian. (1998). *Aviation human computer interface style guide (Report 64201-97U/61223)* (AHCI). Dayton, OH: Author.
- Vicente, K. J., Burns, C. M., & Pawlak, W. S. (1998). Better handbooks, better design: Why current books describing human factors/ergonomics research and application don't meet designers' needs. *Ergonomics In Design*, April, 21-27.
- Vortac, O. U., Barile, A. L., Albright, C. A., Truitt, T. R., Manning, C. A., & Bain, D. (1996). Automation of flight data in air traffic control. In D. Herrmann, M. Johnson, C. McEvoy, C. Hertzog, & P. Hertel (Eds.). *Basic and applied memory: Research on practical aspects of memory*. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Wallace, D. R., Peng, W. W., & Ippolito, L. M. (1992). *Software quality assurance: Documentation and reviews* (NISTIR 4909). Gaithersburg, MD: U.S. Department of Commerce Technology Administration, National Institute of Standards and Technology, Computer Systems Laboratory.
- Warm, J. S., Dember, W. N., & Hancock, P. A. (1996). *Vigilance and workload in automated systems*. R. Parasuraman & M. Mouloua (Eds.). In *Automation and human performance: Theory and applications* (pp. 183-200). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Wickens, C. D. (2000). *Imperfect and unreliable automation and its implications for attention allocation, information access and situational awareness*. (Tech. Report ARL-00-10/NASA-00-2). Urbana-Champaign, IL: Aviation Research Lab Institute of Aviation.
- Wickens, C. D., & Flach, J. M. (1988). Information processing. In E. L. Wiener & D. C. Nagel (Eds.). *Human factors in aviation* (pp. 111-155). San Diego, CA: Academic Press.
- Wickens, C. D., & Kessel, C. (1979). The effects of participatory mode and task workload on the detection of dynamic system failure. *IEEE Transactions on Systems, Man, and Cybernetics*, 9, 24-34.
- Wiener, E. L. (1981). Complacency: Is the term useful for air safety? In *Proceedings of the 26<sup>th</sup> Corporate Aviation Safety Seminar*. Denver, CO: Flight Safety Foundation, Inc., 116-125.

- Wiener, E. L. (1988). Cockpit automation. In E. L. Wiener & D. C. Nagel (Eds.), *Human Factors in Aviation*. San Diego, CA: Academic Press.
- Wiener, E. L. (1989). *Human factors of advanced technology ("glass cockpit") transport aircraft* (Tech. Report 117528). Moffett Field, CA: NASA Ames Research Center.
- Wiener, E. L., & Curry, R. E. (1980). Flight-deck automation promises and problems. *Ergonomics*, *23*, 995-1011.
- Wieringa, D., Moore, C., & Barnes, V. (1993). *Procedure writing: principles and practices*. Columbus, OH: Battelle Press.
- Williams, T. R., & Spyridakis, J. H. (1992). Visual discriminability of headings in text. *IEEE Transactions on Professional Communication*, *35*, New York, IEEE, 64-70.
- Woods, D. D. (1996). Decomposing automation: Apparent simplicity, real complexity. In R. Parasuraman & M. Mouloua (Eds.), *Automation and human performance: Theory and applications* (pp. 3-17). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Workforce Investment Act of 1998, Section 508, Electronic and Information Technology. PL 105-220, enacted on August 7, 1998, 112 Stat 936; codified as: Section 504 of the Rehabilitation Act, 29 U.S.C. § 794d.
- Zaneski, R. (1982). *Software manual production simplified*. New York: Petrocelli.
- Ziefle, M. (1998). Effects of display resolution on visual performance. *Human Factors*, *40* (4), 554-568.