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Compiled by

Rebecca J. Green

**HUMAN ENGINEERING DIVISION
CREW SYSTEMS DIRECTORATE
WRIGHT-PATTERSON AFB, OH 45433-7022**

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FOR THE COMMANDER



KENNETH R. BOFF, Chief

Human Engineering Division

Armstrong Laboratory

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PREFACE

This bibliography contains information for the technical reports, proceedings and articles published by the Human Engineering Division of the Crew Systems Directorate, Armstrong Laboratory, between January 1994 and December 1995.

All citations in the bibliography are in the American Psychological Association (APA) format. We have tried to adhere to this format, however, there are some minor deviations.

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- Anderson, A. F., Amell, J. R., Boyd, S. P., Edwards, R. E., Hanson, D. C., Koehn, M. S., Kraushar, P. G., Leininger, W. E., McConnell, J. N., Ostrand, R. A., Pippin, C. C., Stollings, M. N., Wallace, M. R., White, R. W., & Zaitzeff, L. P. (1994). *Cockpit automation technology final report volume I: Summary of technical effort* (Report No. AL/CF-TR-1994-0004). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B182787)
- Andrews, R., Baltzer, R., Boone, A., Garcia, L., Gier, R., Givens, B., Jackson, K., Korna, M., Lehman, E., Martin, C., Rolek, E., Rountree, M., Runnder, K., Sharp, R., Stadler, J., Storey, B., & Sweaney, M. (1994). *Interim technical report no. 1 (ITRI)* (Report No. AL/CF-TR-1994-0077). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A286426)
- Backs, R. W., Ryan, A. M., Wilson, G. F., & Swain, R. A. (1995). Topographic EEG changes across single-to-dual task performance of mental arithmetic and tracking. *Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting*, 2, 953.
- Bahadur, B., Young, W., Wan, K., & Lewis, D. (1995). *Variable transmittance visor development program* (Report No. AL/CF-SR-1995-0003). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A297264)
- Beaton, R. J., & Farley, W. W. (1994). *Image quality metrics for color CRT displays* (Report No. AL/CF-TR-1994-0115). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A288934)
- Bhatia, G. (1994). *Whole body surface scanner for design of protective equipment* (Report No. AL/CF-TR-1994-0034). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B186313)
- Bhatia, G. H., Smith, K. E., Commean, P. K., Whitestone, J. J., & Vannier, M. W. (in press). Design and simulation of a whole body surface scanner. *Optics and Lasers in Engineering*, Elsevier Science Publishers, Essex, England.
- Bhatia, G. H., Smith, K. E., Commean, P. K., Whitestone, J., & Vannier, M. W. (1994). Design of a multi-sensor optical surface scanner. *Photonics East '94, SPIE, Sensor Fusion VII*, 2355, 262-273.
- Boff, K. R. (1994). The usability of behavioral research findings in system design. In Gartner, Widdel, & Ste (Eds.), *Mensch-Maschine-Systeme und Neue Informationstechnologien*. Dusseldorf: Carl Hansa Verlag Mur and VDI Verlag.

- Borah, J. (1995). *Investigation of eye and head controlled cursor positioning techniques* (Report No. AL/CF-SR-1995-0018). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Bradt Miller, B., Blackwell, S., Case, H., Churchill, T., Mountjoy, D., Gross, M., Kennedy, K., Pollack, R., Robinson, J., Seely, C., & Wysong, M. (1994). *Human morphometrics, motion, and performance research* (Report No. AL/CF-TR-1994-0038). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Brett, B., Daugherty, E., Waltensperger, M., & Arndt, C. (1994). *Minuteman III weapon systems safety assessment (WSSA) human reliability analysis (HRA)* (Report No. AL/CF-TR-1994-0125). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B198141)
- Brickman, B. J., Hettinger, L. J., Roe, M. M., Stautberg, D., Vidulich, M. A., Haas, M. W., & Shaw, R. L. (in press). An assessment of situation awareness in an air combat simulation: The global implicit measure approach. *International Conference on Experimental Analysis and Measurement of Situation Awareness*.
- Brookings, J. B., Wilson, G. F., & Swain, C. R. (in press). Psychophysiological responses to changes in workload during simulated air traffic control. *Biological Psychology*.
- Brown, C. E., Selvaraj, J. A., Zaff, B. S., McNeese, M. D., & Whitaker, R. D. (1994). An integrative bargaining paradigm for investigating multidisciplinary design tradeoffs. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 2, 1028-1032.
- Brown, C., Selvaraj, J., Whitaker, R., & McNeese, M. (1995). *The development of TRACE: An integrative bargaining paradigm for investigating multidisciplinary design tradeoffs* (Report No. AL/CF-TR-1995-0073). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302387)
- Bui, T. H., Vollmerhausen, R. H., & Tsou, B. H. (1994). Overlap binocular field-of-view flight experiment. *Society for Information Display International Symposium: Digest of Technical Papers*, 25, 306-308.
- Caldwell, J. A., Wilson, G. F., Gaillard, A. W. K., Gundel, A., Lagarde, D., Makeig, S., Myhre, G., & Wright, N. A. (Eds.). (1994). *Psychophysiological assessment methods* (Report No. AGARD-AR-324). Neuilly sur Seine, France: NATO Advisory Group for Aerospace Research and Development. (NTIS No. AGARD-AR-324)

- Calhoun, G. L., McMillan, G. R., Morton, P. E., Middendorf, M. S., Schnurer, J. H., Ingle, D. F., Glaser, R. M., & Fighi, S. F. (1995). Functional electrical stimulator control with a direct brain interface. *Proceedings of the RESNA 18th Annual Conference*, 696-698.
- Calspan Advance Technology Center. (1995). Software user's manual for the test planning, analysis and evaluation system (Test PAES).
- Cannon, M. W., & Fullenkamp, S. C. (in press). A model for inhibitory lateral interaction effects in perceived contrast. *Vision Research*.
- Cannon, M. W., & Fullenkamp, S. C. (1994). Target apparent contrast in the presence of peripheral flanking stimuli [Abstract]. *Investigative Ophthalmology and Visual Science*, 34(4), 2005.
- Chen, J. S., Tsou, B. H., & Grigsby, S. S. (1994). A study on contrast perception in noise. *Society for Information Display International Symposium: Digest of Technical Papers*, 25, 490-493.
- Citera, M., McNeese, M. D., Brown, C. E., Selvaraj, J. S., Zaff, B. S., & Whitaker, R. (1995). Fitting information systems to collaborating design teams. *Journal of the American Society of Information Science*, 46, 551-559.
- Citera, M., Selvaraj, J., McNeese, M., Brown, C., & Zaff, B. (1995). *Automate: A research paradigm to study collaboration in multidisciplinary design teams* (Report No. AL/CF-TR-1995-0087). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302112)
- Cody, W. J., Rouse, W. B., & Boff, K. R. (1994). Designer's associates: Intelligent support for information access and utilization in design. In W. B. Rouse (Ed.), *Human Technology Interaction in Complex Systems*. (Vol 7), Greenwich, CT: JAI Press.
- Cohen, J. B., Jackson, K., Kulwicksi, P. V., Lehman, E. F., Martin, C., Rountree, M., & Storey, B. (1994). *Industry review of a crew-centered design process and toolset* (Report No. AL/CF-TR-1994-0063). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A282966)
- Cona, T., & Monk, D. L. (1994). Improving the impact of human performance information on the process of human-system design. *Symposium on Human Interaction with Complex Systems*, 247-250.
- Craig, J. L. (1995). Armstrong Laboratory night vision device research and development activities. *1995 Joint Service Night Vision Conference*.

- Cunningham, J., Nelson, W. T., Hettinger, L. J., Russell, C., & Haas, M. W. (1995). Assessing target detection performance using head position data: A qualitative and quantitative analysis. *Proceedings of the Eighth International Symposium on Aviation Psychology*, 158-163.
- Davis, E. T., Corso, G. M., Barfield, W., Eggleston, R. G., Ellis, S., Ribarsky, B., & Wickens, C. D. (1994). Human perception and performance in 3D virtual environments. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 1, 230-234.
- DeLucia, P. R. (1995). Effects of pictorial relative size and ground-intercept information on judgments about potential collisions in perspective displays. *Human Factors*, 37, 528-538.
- DeLucia, P. R., & Task, H. L. (1995). Depth and collision judgement using night vision goggles. *International Journal of Aviation Psychology*, 5(4), 371-386.
- DeLucia, P. R., & Warren, R. (1994). Pictorial and motion-based depth information during active control of self-motion: Size-arrival effects on collision avoidance. *Journal of Experimental Psychology: Human Perception and Performance*, 20, 783-798.
- Dent-Read, C. H., Klein, G., & Eggleston, R. G. (1994). Metaphor in visual display designed to guide action. *Metaphor and Symbolic Activity*, 9(3), 211-232.
- Donohue, T. R., Doyal, J. A., Irvin, G. E., & Dowler, M. G. (1995). *Creek Shadow camouflage concealment and deception demonstration final report* (Report No. AL/CF-TR-1995-0013). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Donohue-Perry, M. M., & Task, H. L. (1994). *Visual acuity vs. field-of-view and light level for night vision goggles* (Report No. AL/CF-TR-1994-0076). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A284750)
- Donohue-Perry, M. M., Task, H. L., & Dixon, S. A. (1994). Visual acuity vs. field of view and light level for night vision goggles (NVGs). In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbology Design Requirements*, 2218, 71-81.
- Doyal, J. A., Irvin, G. E., & Ramer, D. P. (1995). *Operator cursor positioning performance on navigational update and targeting tasks: Evaluation of gain functions for the B-2 radar-embedded cursor system* (Report No. AL/CF-TR-1995-0106). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A301662)

- Doyal, J. A., Irvin, G. E., & Ramer, D. P. (1995). A performance-based evaluation of B-2 cursor system gain functions for use on navigational update and targeting tasks. *Proceedings of the IEEE National Aerospace and Electronic Conference (NAECON)*, 1, 566-573.
- Doyal, J. A., Ramer, D. P., Stratton, M. D., & Purvis, B. D. (1994). *Visual contrast detection thresholds for aircraft contrails* (Report No. AL/CF-TR-1994-0116). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A288618)
- Eggleston, R. G. (1995). Multi-modal virtual environment research at Armstrong Laboratory. *Human-Computer Interaction and Virtual Environments, NASA Conference Publication 3320*, 123-148.
- Eggleston, R. G., Janson, W., & Adapalli, S. (1994). Manual tracking performance using a virtual hand controller: A comparison study. *AGARD Conference Proceedings 541: Virtual Interfaces: Research and Applications* (pp. 10-1-10-7). Neuilly sur Seine, France: NATO Advisory Group for Aerospace Research and Development. (NTIS No. AGARD-CP-541)
- Emmel, P. M., & Morris, G. M. (1995). *Diffraction head-mounted optical systems for use with subtractive-color liquid-crystal displays: Phase I final report* (Report No. AL/CF-SR-1995-0022). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Fang, H., & Nurre, J. H. (1994). *Optimal estimation of head scan data with generalized cross validation* (Report No. AL/CF-TR-1994-0114). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B199231)
- Filipovich, D., Fiore, J., & Craig, J. (1994). *Enhanced night vision goggle configurations: Concept VI-advanced low profile night vision goggle* (Report No. AL/CF-TR-1994-0099). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B192590)
- Filipovich, D., Fiore, J., & Craig, J. L. (1994). *Further development of NVGs: Concept VIII-wide field-of-view night vision goggle* (Report No. AL/CF-TR-1994-0098). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B198138)
- Filipovich, D., Fiore, J., & Craig, J. L. (1995). *SBIR phase III enhanced night vision goggle configuration* (Report No. AL/CF-SR-1995-0019). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Filipovich, D., Sobel, A., & Craig, J. (1994). *Liquid crystal displays within image intensifier systems* (Report No. AL/CF-SR-1994-0011). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B195963)

- Flach, J. M., & Warren, R. (in press). Low altitude flight. In J. M. Flach, P. A. Hancock, J. K. Caird, & K. J. Vicente (Eds.), *The Ecology of Human Machine Systems II: Local applications* (pp. 65-103). Hillsdale, NJ: Erlbaum.
- Flach, J. M., & Warren, R. (1995). Active psychophysics: The relation between mind and what matters. In J. M. Flach, P. A. Hancock, J. K. Caird, & K. J. Vicente (Eds.), *Global Perspectives on the Ecology of Human-Machine Systems* (pp. 189-209). Hillsdale, NJ: Erlbaum.
- Garcia, L. (1994). A tool for design traceability management. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 807-813.
- Garness, S. A., Flach, J. M., Stanard, T., & Warren, R. (1994). The basis for the perception and control of altitude: Splay & depression angle components of optical flow. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 2, 1275-1279.
- Geiselman, E. E., & Osgood, R. K. (1994). Utility of off-boresight helmet-mounted symbology during a high angle airborne target acquisition task. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbology Design Requirements*, 2218, 328-338.
- Geiselman, E. E., & Osgood, R. K. (1995). Head versus aircraft oriented air-to-air target location symbology using a helmet-mounted display. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Helmet- and Head-Mounted Displays and Symbology Design Requirements II, SPIE Aerospace '95*, 2465, 214-225.
- Geiselman, E. E., & Osgood, R. K. (1995). Helmet-mounted display attitude symbology: An evaluation of compression ratio. *International Journal of Industrial Ergonomics*, 15, 111-121.
- Geisen, G. R., Mason, C. P., Houston, V. L., Whitestone, J. J., McQuiston, B. K., & Beattie, A. C. (1995). Automatic detection, identification, and registration of anatomical landmarks from E-E laser digitizer body segment scans. *IEEE-Engineering in Medicine and Biology Society*.
- Gevens, A., Du, R., & Leong, H. (1995). *Artifact elimination for in-flight assessment of operator physiology* (Report No. AL/CF-TR-1995-0085). Wright-Patterson AFB, OH: Armstrong Laboratory.

- Givens, B. R. (1994). Object-oriented applications in a rapid prototyping environment. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 814-819.
- Givens, B. R. (1995). Cockpit display prototyping for an engineering design simulator. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 722-728.
- Green, R. J. (1994). *Bibliography of research reports and publications issued by the Human Engineering Division, January 1987 - December 1993* (Report No. AL/CF-SR-1994-0003). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A278787)
- Green, R. J., Self, H. C., & Ellifritt, T. S. (1995). *50 years of human engineering--history and cumulative bibliography of the Fitts Human Engineering Division* (Report No. AL/CF-SR-1995-0007). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A295601)
- Grigsby, S. S., Pierce, G. E., & Tsou, B. H. (1995). Effects of noise on the visual detection of moving stimuli. *Investigative Ophthalmology and Visual Science*, 36, 905.
- Grigsby, S. S., Rogers-Adams, B., & Tsou, B. H. (1994). Binocular summation of tonic and phasic stimuli in the near and far periphery [Abstract]. *Investigative Ophthalmology and Visual Science*, 35, 1917.
- Grigsby, S. S., & Tsou, B. H. (1994). Grating and flicker sensitivity in the near and far periphery: Naso-temporal asymmetries and binocular summation. *Vision Research*, (34), 2841-2848.
- Grigsby, S. S., & Tsou, B. H. (1994). Visual processing and partial-overlap head-mounted displays. *Journal of the Society for Information Display*, 2(2), 69-73.
- Grigsby, S. S., & Tsou, B. H. (1995). *Visual processing and partial-overlap head-mounted displays* (Report No. AL/CF-SR-1995-0012). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A299326)
- Gross, M., Crist, J., Robinette, K., & Altenau, M. (1995). *Fit evaluation of two aircrew coveralls* (Report No. AL/CF-TR-1995-0053). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A298097)
- Haas, M. W. (1994). Fusion interfaces for tactical environments: An approach for applying virtual reality technology. In K. Krishen (Ed.), *Seventh Annual Workshop on Space Operations, Applications and Research (SOAR '93)* (NASA CP-3240, Vol 1&2 pp. 378-387). Washington, DC: National Aeronautics and Space Administration.

- Haas, M. W. (1995). Virtually augmented interfaces for tactical aircraft. *Biological Psychology*, 40(1,2), 229-238.
- Haas, M. W., Hettinger, L. J., Nelson, W. T., & Shae, R. L. (1995). *Developing virtual interfaces for use in future fighter aircraft cockpits* (Report No. AL/CF-TR-1995-0154). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Hatfield, F., Jenkins, E., & Jennings, M. W. (1995). *Eye/voice mission planning interface* (Report No. AL/CF-TR-1995-0204). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Hecht-Nielsen, R., & John, E. R. (1994). *Mental workload measurement using brainwave analysis* (Report No. AL/CF-SR-1994-0008). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B187319)
- Henning, R. A., & Wilson, G. F. (1995). Evaluation of work schedules using psychophysiological measures. *Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting*, 2, 779.
- Hettinger, L. J., Nelson, W. T., Brickman, B. J., Roumes, C., & Haas, M. W. (1995). Assessing human performance in virtual environments. *Proceedings of the Eighth International Symposium on Aviation Psychology*, 170-175.
- Hettinger, L. J., Nelson, W. T., & Haas, M. W. (in press). Target detection performance in helmet-mounted and conventional dome displays. *International Journal of Aviation Psychology*.
- Hettinger, L. J., Nelson, W. T., & Haas, M. W. (1994). Applying virtual environment technology to the design of fighter aircraft cockpits: Pilot performance and situation awareness in a simulated air combat task. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 1, 115-118.
- Hettinger, L. J., Nelson, W. T., & Haas, M. W. (1994). Comparison of target detection performance using a helmet-mounted display and a conventional flight simulator dome display. *Proceedings of the 1994 Symposium on Human Interaction with Complex Systems*, 299-306.
- Hoffmeister, J. W. (1994). Better fitting burn masks. In K. Hart (Ed.), *The OATC Innovator*, 94(3), 5-7.
- Hoffmeister, J. W. (1994). Medical applications of 3D surface anthropometry: burn masks, prosthetics, and hearing aids. *Minutes of the 32nd Meeting of the DOD Human Factors Engineering Technical Group*, H4.

- Hutton, R. J. B., Flach, J. M., Brickman, B. J., Dominguez, C., Hettinger, L., Haas, M., & Russell, C. A. (1994). Keeping in touch: Kinesthetic-tactile information and fly-by-wire. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 1, 26-30.
- Irvin, G. E., Donohue, T. R., & Dowler, M. G. (1994). *Evaluation and specification of chromaticity coordinates for an effective concrete false operating surface (FOS)* (Report No. AL/CF-TR-1994-0035). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B195498)
- Irvin, G. E., Donohue, T. R., & Dowler, M. G. (1995). *The evaluation of camouflage, concealment, and deception (CCD) treatments at the Creek Shadow Air Base operability and survivability demonstration* (Report No. AL/CF-TR-1994-0044). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Irvin, J. G., Doyal, J. A., Sharp, E. D., & LaSalvia, J. M. (1994). *Experimental evaluation of cursors for B-2 synthetic aperture radar (SAR) application* (Report No. AL/CF-TR-1994-0020). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A283025)
- Junker, A., Berg, C., Schneider, P., & McMillan, G. R. (1995). *Evaluation of the Cyberlink interface as an alternative human operator controller* (Report No. AL/CF-TR-1995-0011). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Keep, G. F., Doyal, J. A., Irvin, G. F., & Dowler, M. G. (1995). *The effectiveness of two-dimensional shape disruptive patterns: A summary of results from both laboratory experimentation and field testing at Creek Shadow* (Report No. AL/CF-TR-1995-0150). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Kennedy, K. W., & Zehner, G. F. (1995). Assessment of anthropometric accommodation in aircraft cockpits. *SAFE Journal*, 25, 51-57.
- Kenner, K. M., Junker, A. M., & Levison, W. H. (1994). *A linear, dynamic model for the visual-cortical evoked response system* (Report No. AL/CF-SR-1994-0005). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Killan, J. C. (1995). *An innovative approach to man-ATR interaction* (Report No. AL/CF-TR-1995-0045). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B199619)
- Kline, Y. M., & Whitestone, J. J. (1995). *An investigation of the usefulness of 3-D digitized facial images for the issuance of the MCU-2/P protective mask* (Report No. AL/CF-TR-1995-0162). Wright-Patterson AFB, OH: Armstrong Laboratory.

- Kocian, D. F., & Ross, J. A. (1995). Hybrid deflection amplifier for helmet-mounted visually-coupled systems. *Society for Information Display (SID) International Symposium Digest of Technical Papers*, A3.3, 45-49.
- Kocian, D. F., & Task, H. L. (1995). Visually coupled systems hardware and the human interface, Chapter 6. In W. Barfield, & T. A. Furness (Eds.), *Virtual Environments & Advanced Interface Design* (pp. 175-257). New York, NY: Oxford University Press.
- Kraft, D. H., & Monk, D. L. (in press). *Applications of fuzzy computation--Information retrieval: A case study with the CASHE:PVS system*. Oxford University Press: Handbook of Fuzzy Computation.
- Krauskopf, P. J., Quinn, J. W., Stump, W. J., Robbins, C. G., Unger, R. A., Newell, S. L., Jones, M. W., & Smith, K. J. (1995). *Computer models for ergonomics* (Report No. AL/CF-TR-1994-0164). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302511)
- Kuipers, J. B. (1994). *Characterization and application of quaternions for enhanced computer processing algorithms* (Report No. AL/CF-SR-1994-0014). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Kuperman, G. G. (1994). Operator interface for a multi-sensor target acquisition system. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 638-645.
- Kuperman, G. G. (1995). A methodology for combining modeling, simulation, and demonstrations in assessing operational effectiveness. *63rd Military Operations Research Society Symposium*, 116-117.
- Kuperman, G. G. (1995). *Prototyping and interface/workload evaluation: GPS-aided targeting system* (Report No. AL/CF-TR-1995-0027). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B203916)
- Kuperman, G. G., & Friedman, A. D. (1994). Prototyping for multisensor integration. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 726-733.
- Kuperman, G. G., & Friedman, A. D. (1995). *Prototyping and interface/workload evaluation of a multisensor target acquisition system* (Report No. AL/CF-TR-1995-0002). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A299438)
- Kuperman, G. G., & Penrod, T. D. (1994). Evaluation of compressed Synthetic Aperture Radar imagery. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 1, 319-326.

- Lincoln, J. E., & Monk, D. L. (in press). Presentation of scientific and technical graphics on desktop systems. *ACM Transactions on Information Systems*.
- Lind, S., & Marshak, W. (1994). Cognitive engineering computer interfaces: Part I - Knowledge acquisition in the design process. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 753-755.
- Longinow, N. E. (1994). Predicting pilot look-angle with a radial basis function network. *IEEE Transactions on Systems, Man and Cybernetics*, 1511-1518.
- MacMillan, R. T., Brown, R. W., & Wiley, L. L. (1995). Safety of flight testing for advanced fighter helmets. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings on Helmet- and Head-Mounted Displays and Symbology Design Requirements II*, SPIE Aerospace '95, 2465, 154-164.
- Malek, D. A., Irvin, J. G., & Fix, E. L. (1995). *Results and recommendations from a human factors evaluation of the B-1B towed decoy control panel* (Report No. AL/CF-SR-1995-0025). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Marasco, P. L. (1995). *A method for improving night vision device depth of field* (Report No. AL/CF-TR-1995-0105). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Marshak, W., & Lind, S. (1994). Cognitive engineering computer interfaces: Part II - An objective design process. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 756-760.
- Martin, C. D. (1994). Application of a crew-centered cockpit design process and toolset. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 701-708.
- McCarthy, J., Pantle, A., & Pinkus, A. (1994). Detection and discrimination performance with flicker gratings in peripheral vision. *Vision Research*, 34, 763-773.
- McDaniel, J. W. (1994). Strength capabilities for operating aircraft controls. In F. Aghazadeh (Ed.), *Advances in Industrial Ergonomics and Safety VI* (pp. 705-712). Bristol, PA: Taylor & Francis.
- McDaniel, J. W. (1995). Demise of military standards may affect ergonomics. In A. C. Bittner, & P. C. Champney (Eds.), *Advances in Industrial Ergonomics and Safety VII* (pp. 811-818). Bristol, PA: Taylor & Francis.

- McDaniel, J. W. (1995). Function allocation and automation implementation in the U.S. Air Force. In D. Beevis (Ed.), *NATO Technical Proceedings AC/243 (Panel 8) TP/7 Improving Function Allocation for Integrated System Design*, TNO Human Factors Institute, 45-58.
- McKinley, R. L., D'Angelo, W. R., Haas, M. W., Perrot, D. R., Nelson, W. T., Hettinger, L. J., & Brickman, B. J. (1995). An initial study of the effects of 3-dimensional auditory cueing on visual target detection. *Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting*, 1, 119-123.
- McMillan, G. (1995). Brain-actuated control: Thinking ahead to "Firefox." *CSERIAC Gateway*, VI(5), 8-9.
- McMillan, G. R., Calhoun, G. L., Middendorf, M. S., Schnurer, J. H., Ingle, D. F., & Nasman, V. T. (1995). Direct brain interface utilizing self-regulation of steady-state visual evoked response (SSVER). *Proceedings of the RESNA 18th Annual Conference*, 693-695.
- McNeese, M. D. (1994). A synopsis of naturalistic decision making: Implications for design. *CSERIAC Gateway*, 5(1), 6-7.
- McNeese, M. D. (1995). Cognitive engineering: A different approach to human-machine systems. *CSERIAC Gateway*, VI, 1-4.
- McNeese, M. D., Zaff, B. S., Citera, M., Brown, C. E., & Whitaker, R. (1995). AKADAM: Eliciting user knowledge to support participatory ergonomics. *The International Journal of Industrial Ergonomics*, 15, 345-363.
- McQuiston, B., Whitestone, J., Stytz, M., Bishop, J., & Henderson, R. (1995). Image technique for wound assessment. *IEEE-Engineering in Medicine and Biology Society*.
- Merhav, S. J., Lifshitz, S., & Kocian, D. F. (1994). *Advanced filtering methods in head teleoperated systems and helmet mounted displays* (Report No. AL/CF-SR-1994-0002). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A279446)
- Merryman, R. F. K. (1994). Vista Sabre II: Integration of helmet-mounted tracker/display and high off-boresight missile seeker into F-15 aircraft. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbology Design Requirements*, 2218, 173-184.
- Meyers, L., Riddell, J., & Wiley, L. (1995). *Quick disconnect mechanism development, Phase I: Feasibility study* (Report No. AL/CF-SR-1995-0011). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A300296)

- Miao, A. X., Zacharias, G. L., & Warren, R. (1995). *Design study for passive sensor altitude and terrain awareness system* (Report No. AL/CF-TR-1995-0141). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Monk, D. (1994). Computer Aided Systems Human Engineering: Performance Visualization System (CASHE: PVS) - An interactive, hypermedia design tool. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting, 2*, 948.
- Monk, D. L. (1995). Computer aided systems human engineering: Performance visualization system (CASHE:PVS), Version 1.0 (CD-ROM). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Monk, D. L., & Lincoln, J. E. (1994). *User's Guide - computer aided systems human engineering: Performance visualization system*. Wright-Patterson AFB, OH: Armstrong Laboratory.
- Mountjoy, D. N., Burnside, D. D., Payne, E. F., Hoffmeister, J. W., & Diesel, D. A. (1995). Custom oxygen mask development using rapid prototyping technologies. *Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting, 2*, 961.
- Nasman, V. T., Calhoun, G. L., & McMillan, G. R. (in press). Brain-actuated control and HMDs. In J. Melzer, & K. Moffitt (Eds.), *Head-Mounted Displays: Designing for the User*. New York: McGraw-Hill.
- Nasman, V. T., Ingle, D. F., & Calhoun, G. (1995). Topographic and task-related effects of SSVER self-regulation. *Psychophysiology, 32*, S55.
- Nelson, W. T., Hettinger, L. J., Haas, M. W., Russell, C., Warm, J. S., Dember, W. N., & Stoffregen, T. A. (1995). Compensation for effects of time delay in a helmet-mounted display: Perceptual adaptation versus algorithmic prediction. In R. J. Lewandowski, W. Stephens, L. A. Haworth (Eds.), *Proceedings on Helmet- and Head-Mounted Displays and Symbolology Design Requirements II, SPIE Aerospace '95, 2465*, 154-164.
- Nurre, J. H. (1995). Processing three-dimensional human head scan data. *IS&T/SPIE Symposium on Electronic Imaging: Science and Technology, 2410*, 438-446.
- Nurre, J. H., Whitestone, J. J., Burnside, D. B., & Hoeflerlin, C. M. (1995). Issues for data reduction of dense three-dimensional data. *SPIE Photonics East Symposium, 2588*, 618-625.

- Nurre, J. H., Whitestone, J. J., Hoffmeister, J. W., & Burnsides, D. B. (1995). *Removing impulse noise from human head scan data* (Report No. AL/CF-TR-1995-0054). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A301442)
- Osgood, R. K., Wells, M., & Meador, D. (1995). A comparison of head-steered and aircraft fixed infrared imagery for employing the AFM-65 Maverick Missile. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings on Helmet- and Head-Mounted Displays and Symbology Design Requirements II, SPIE Aerospace '95*. 2465, 184-193.
- Palmer, B., Nasman, V. T., & Wilson, G. F. (1994). Task decision difficulty: Effects of ERPs in a same-different letter classification task. *Biological Psychology*, 38, 199-214.
- Palmer, B., Wilson, G. F., Reis, G., & Gravelle, M. (1995). *The effects of one night's loss of sleep and recovery on physiological, performance, and subjective indices* (Report No. AL/CF-TR-1995-0128). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Pinkus, A. R. (1994). *The spatiotemporal characteristics of visual motion priming* (Report No. AL/CF-TR-1994-0084). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A284782)
- Pinkus, A., & Pantle, A. (1996). Probing visual motion signals with a priming paradigm. *Vision Research*.
- Post, D. L. (1994). Miniature color display for airborne HMDs. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbology Design Requirements*, 2218, 2-6.
- Post, D. L., & Lloyd, C. J. (1994). Color display gamuts and ambient illumination. *Displays*, 15, 39-43.
- Post, D. L., Sarma, K. A., Trimmier, J. R., Heinze, W., Rogers, C. R., Ellis, R., Larson, B., & Franklin, H. (1994). A new color display for head-mounted use. *Journal of the Society for Information Display*, 2, 155-163.
- Purvis, B. D., Turner, S. L., & Spravka, J. J. (1994). *B-1 night vision enhancement project* (Report No. AL/CF-TR-1994-0184). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B199506)
- Reising, J. D., Grable, C., Stearns, S. M., Craig, J. L., & Pinkus, A. R. (1994). *Night vision imaging system lighting compatibility testing of a production C-130H3 aircraft* (Report No. AL/HR-TR-1994-0166). Wright-Patterson AFB, OH: Armstrong Laboratory.

- Riccio, G. E., McMillan, G. R., Cress, J. D., & Schnurer, J. H. (1995). *Functional transcutaneous electrical stimulation of the vestibular system* (Report No. AL/CF-SR-1995-0014). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302220)
- Robinette, K. M. (1995). Female anthropometry and the implications for protective equipment. *SAFE Journal*, 25, 35-45.
- Robinette, K. M., & Whitestone, J. J. (1994). The need for improved anthropometric methods for the development of helmet systems. *Aviation, Space and Environmental Medicine*, 65(4,Suppl.).
- Rolek, E. P., & Fix, E. L. (1994). *Results of an interactive man-in-the-loop simulation of a Soviet SAM system engaging a strategic aircraft* (Report No. AL/CF-TR-1994-0064). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Ross, J. A. (1995). Multirate video sync stripper. *Electronic Design*, 102-104.
- Ross, J. A., & Kocian, D. (1994). *Hybrid video amplifier chip set for helmet-mounted visually coupled systems* (Report No. AL/CF-SR-1994-0031). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A293506)
- Ross, J. A., & Kocian, D. F. (1995). Hybrid deflection amplifier for helmet-mounted visually coupled systems. *Society of Information Display, Digest of Technical Papers, Applications Session A1*, 45-49.
- Rouse, W. B., & Boff, K. R. (1995). Assessing cost benefits of human factors. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics*. New York, NY: John Wiley & Sons, Inc.
- Rueb, J. D., Vidulich, M. A., & Hassoun, J. A. (1994). Use of workload redlines: A KC-135 crew-reduction application. *The International Journal of Aviation Psychology*, 4, 47-64.
- Sanderson, P. (1994). *MacSHAPA 1.0 software and user's manual*. Wright-Patterson AFB, OH: Armstrong Laboratory.
- Sanderson, P. M., McNeese, M. D., & Zaff, B. S. (1994). Handling complex real-world data with two cognitive engineering tools: COGENT and MacSHAPA. *Behavior Research Methods, Instruments & Computers*, 17(2), 117-124.
- Schnurer, J. H., Ingle, D. F., Downey, C. W., & Junker, A. M. (1994). *Real time frequency analysis methodology for evoked potential loop-closure* (Report No. AL/CF-SR-1994-0006). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A279149)

- Schor, C. M., & Task, H. L. (in press). Effects of overlay symbology in night vision goggles on accommodation and attention shift reaction time. *Aviation, Space and Environmental Medicine*.
- See, J. E., & Kuperman, G. G. (1995). *The effects of resolution and other factors on target acquisition performance using simulated synthetic aperture radar imagery* (Report No. AL/CF-TR-1995-0149). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Skelly, J. J., Roe, M. M., & Jones, M. R. (1994). *Temporal pacing in visual attention* (Report No. AL/CF-TR-1994-0087). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A289785)
- Smith, S. L., Purvis, B., & Turner, S. (1994). Test planning, analysis and evaluation system (Test PAES) a process and tool to evaluate cockpit design during flight test. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 2, 942.
- Spravka, J. J., Gomes, M. E., & Lind, S. (1994). *Tools for automated knowledge engineering (TAKE) system evaluation methodology* (Report No. AL/CF-TR-1994-0113). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A291145)
- Spravka, J. J., Gomes, M. E., Lind, S., & Zehner, G. (1994). *A human factors evaluation of the MH-60 PAVE HAWK helicopter cockpit* (Report No. AL/CF-TR-1994-0056). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B203975)
- Spravka, J. J., Lind, S., & Gomes, M. E. (1994). *Exploratory applications of the tools for automated knowledge engineering (TAKE) to the crew-centered cockpit design process* (Report No. AL/CF-TR-1994-0145). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B196793)
- Stengel, J. D. (1994). *Systems engineering design and technical analysis for strategic avionics crew station design evaluation facility (SACDEF)* (Report No. AL/CF-TR-1994-0074). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A286239)
- Stephens, B. R., Cannon, M. W., Ellis, D., & Monachino, L. (1994). Identification of complex gratings as a function of contrast and spatial frequency [Abstract]. *Investigative Ophthalmology and Visual Science*, 35(4), 2006

- Storey, B. A., Osgood, R. K., & Schueren, J. C. (1994). Aircraft/mission requirements approach for helmet-mounted display decisions. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbolology Design Requirements*, 2218, 238-247.
- Storey, B. A., Rountree, M. E., Kulwicki, P. V., & Cohen, J. B. (1994). Development of a process for cockpit design. *Proceedings of the IEEE National Aerospace and Electronics Conference (NAECON)*, 2, 688-695.
- Task, H. L. (in press). HMD image source optics, and the visual interface. In J. Melzer, & K. Moffit (Eds.), *Head Mounted Displays: Designing for the User*. New York, NY: McGraw-Hill.
- Task, H. L., & Kocian, D. F. (1995). *Design and integration issues of visually coupled systems* (Report No. AL/CF-SR-1995-0004). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Tripp, L. D., Hettinger, L. H., Haas, M. W., Nelson, W. T., & Wilson, G. (1995). Cerebral blood flow velocity during flight simulation as measured using transcranial doppler (Abstract). *Proceedings of the Aerospace Medical Association 65th Annual Scientific Meeting*.
- Tsang, P. S., Shayner, T. L., & Vidulich, M. A. (1995). Resource scarcity and outcome conflict in time-sharing performance. *Perception and Psychophysics*, 57, 365-378.
- Tsang, P. S., Velazquez, V. L., & Vidulich, M. A. (in press). Viability of resource theories in explaining time-sharing performance. *Acta Psychological*.
- Tsang, P. S., & Vidulich, M. A. (1994). The roles of immediacy and redundancy in relative subjective workload assessment. In W. C. Howell (Ed.), *Human Factors*, 36(3), 503-513.
- Tsou, B. H., Grigsby, S. S., Jones, R., & Pierce, G. E. (1995). Perspective projection and its tolerances in partial-overlap binocular head-mounted displays. *Society for Information Display (SID) International Symposium Digest of Technical Papers*, 26, 364-367.
- Tsou, B. H., Pierce, G. E., Grigsby, S. S., & Jones, R. (1995). *Perspective projection and its tolerances in partial-overlap binocular head-mounted displays* (Report No. AL/CF-SR-1995-0013). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A299325)

- Turner, S. L. (1995). Human factors engineering: Value added to operations. *DOD HFE TAG*.
- Turner, S. L. (1995). *Quantifying human performance of a dynamic military target detection task: An application of the theory of signal detection* (Report No. AL/CF-TR-1995-0130). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Vidulich, M. A. (in press). The role of "scope" as a feature of situation awareness metrics. *International Conference on Experimental Analysis and Measurement of Situation Awareness*.
- Vidulich, M. A., McCoy, A. L., & Crabtree, M. S. (1995). The effect of a situation display on memory probe and subjective situational awareness metrics. In R. S. Jensen, & L. A. Takovan (Eds.), *Proceedings of the Eighth International Symposium on Aviation Psychology*, 2, 765-768.
- Vidulich, M. A., Stratton, M. D., Crabtree, M. S., & Wilson, G. F. (1994). Performance-based and physiological measures of situational awareness. *Aviation, Space and Environmental Medicine*, 65, A7-A12.
- Vidulich, M., Dominguez, C., Vogel, E., & McMillan, G. (1994). *Situation awareness: Papers and annotated bibliography* (Report No. AL/CF-TR-1994-0085). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A284752)
- Waltensperger, G. M. (1995). *Choice bimanual aiming with unequal indices of difficulty* (Report No. AL/CF-TR-1995-0068). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302446)
- Whitaker, R., Longinow, N., & McNeese, M. (1995). *Group interfaces: A profile and a prototype* (Report No. AL/CF-TR-1995-0069). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302158)
- Whitaker, R., Selvaraj, J., Brown, C., & McNeese, M. (1995). *Collaborative design technology: Tools and techniques for improving collaborative design* (Report No. AL/CF-TR-1995-0086). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. A302149)
- Wiley, L. L., & Brown, R. W. (1994). MH-53J PAVE LOW helmet-mounted display flight test. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE): Helmet- and Head-Mounted Displays and Symbology Design Requirements*, 2218, 207-214.

- Wiley, L. L., Brown, R. W., & MacMillan, R. T. (1995). Ejection safety for advanced fighter helmets. In R. J. Lewandowski, W. Stephens, & L. A. Haworth (Eds.), *Proceedings on Helmet- and Head-Mounted Displays and Symbolology Design Requirements II, SPIE Aerospace '95*, 2465, 122-131.
- Wilson, G. F. (1994). Workload assessment monitor (WAM). *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 2, 944.
- Wilson, G. F. (Ed.). (1995). EEG in basic and applied settings. *Biological Psychology*, 40, 1-250.
- Wilson, G. F., & Eggemeier, F. T. (1994). Mental workload assessment. *CSERIAC Gateway*, 5(2), 1-4.
- Wilson, G. F., & Fisher, F. E. (1995). Cognitive task classification based upon topographic EEG data. *Biological Psychology*, 40, 239-250.
- Wilson, G. F., Fullenkamp, P., & Davis, I. E. (1994). Evoked potential, cardiac, blink & respiration measures of pilot workload in air-to-ground missions. *Aviation, Space and Environmental Medicine*, 65, 100-105.
- Wilson, G. F., & Hankins, T. (1994). EEG and subjective measures of private pilot workload. *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting*, 2, 1322-1325.
- Wilson, G. F., & Mulford, L. L. (1994). Register of psychophysiologicalists. In J. A. Caldwell, G. F. Wilson, M. Cetinguc, A. W. K. Gaillard, A. Gundel, D. Lagarde, S. Makeig, G. Myhre, & N. A. Wright (Eds.), *Psychophysiological Assessment Methods* (AGARD-AR-324 pp. J-1 - J-42). Neuilly sur Seine, France: NATO Advisory Group for Aerospace Research and Development.
- Wilson, G. F., Palmer, B., Reis, G., & Gravelle, M. (1994). Changes in cardiac and eyeblink measures while performing the AGARD stress battery after one night sleep loss. *Aviation, Space and Environmental Medicine*, 65, 457.
- Wilson, G. F., Swain, C. R., & Brookings, J. (1995). The effects of simulated air traffic control workload manipulations on EEG. *8th International Symposium on Aviation Psychology*, 2, 1025-1030.
- Wilson, G. F., Swain, C. R., & Brookings, J. B. (1995). *Workload related changes in eye, cardiac, respiratory and brain activity during simulated air traffic control* (Report No. AL/CF-TR-1995-0156). Wright-Patterson AFB, OH: Armstrong Laboratory.
- Wilson, G. F., Swain, R. A., & Davis, I. E. (1994). Topographical analysis of cortical evoked activity during a variable demand spatial processing task. *Aviation, Space and Environmental Medicine*, 65, A54-A61.

- Wittman, W. T., & Healy, A. F. (1994). A long-term retention advantage for spatial information learned naturally and in the laboratory. In A. F. Healy, & L. E. Bourne (Eds.), *Learning and Memory of Knowledge and Skills: Durability and Specificity* (pp. 170-205). Thousand Oaks, CA: SAGE Publications.
- Young, M. F., & McNeese, M. D. (1995). A situated cognition approach to problem solving. In P. Hancock, J. Flach, J. Caird, & K. Vincente (Eds.), *Local Applications of the Ecological Approach to Human-machine Systems* (pp. 359-391). Hillsdale, NJ: Erlbaum.
- Zacharias, G. L., Miao, A. X., & Warren, R. (1995). Multistage integration model for human egomotion perception. *Journal of Guidance, Control & Dynamics*, 18, 937-944.
- Zehner, G. F. (1994). Anthropometric accommodation in USAF cockpits. In K. Krishen (Ed.), *Seventh Annual Workshop on Space Operations, Applications and Research (SOAR '93)* (NASA CP-3240). Washington, DC: National Aeronautics and Space Administration.
- Zimmerman, G., & Lintz, A. (1994). *Magneto-optic gravity induced loss of consciousness monitor* (Report No. AL/CF-SR-1994-0007). Wright-Patterson AFB, OH: Armstrong Laboratory. (DTIC No. B188064)