

Handbook of Human Systems Integration

Harold R. Booher



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A groundbreaking look at how technology with a human touch is revolutionizing government and industry

Human Systems Integration (HSI) is very attractive as a new integrating discipline designed to help move business and engineering cultures toward a more people-technology orientation. Over the past decade, the United States and foreign governments have developed a wide range of tools, techniques, and technologies aimed at integrating human factors into engineering systems in order to achieve important cost and performance benefits that otherwise would not have been accomplished. In order for this new discipline to be effective, however, a cultural change is needed that must start with organizational leadership.

Handbook of Human Systems Integration outlines the principles and methods that can be used to help integrate people, technology, and organizations with a common objective toward designing, developing, and operating systems effectively and efficiently. Handbook of Human Systems Integration is broad in scope, covering both public and commercial processes as they interface with systems engineering processes. Emphasizing the importance of management and organization concepts as well as the technical uniqueness of HSI, Handbook of Human Systems Integration features:

* More than ninety contributors, technical advisors, and reviewers from government, industry, and academia * Comprehensive coverage of the most recent HSI developments, particularly in presenting the cutting-edge tools, techniques, and methodologies utilized by each of the HSI domains

- * Chapters representing the governments and industries of the United Kingdom and Canada
- * Contributions from three services of the Department of Defense along with the Federal Aviation Administration and the National Academy of Sciences
- * Many chapters covering both military and nonmilitary applications
- * Concepts widely used by government contractors both in the United States and abroad

This book will be of special interest to HSI practitioners, systems engineers, and managers, as well as government and industry decision-makers who must weigh the recommendations of all multidisciplines contributing to systems performance, safety, and costs in order to make sound systems acquisition decisions.

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