



# Handbook of Systems Engineering and Management

By Andrew P. Sage, William B. Rouse

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Topical coverage includes: systems engineering life cycles and management; risk management; discovering system requirements; configuration management; cost management; total quality management; reliability, maintainability, and availability; concurrent engineering; standards in systems engineering; system architectures; systems design; systems integration; systematic measurements; human supervisory control; managing organizational and individual decision-making; systems reengineering; project planning; human systems integration; information technology and knowledge management; and more.

The handbook is written and edited for systems engineers in industry and government, and to serve as a university reference handbook in systems engineering and management courses. By focusing on systems engineering processes and systems management, the editors have produced a long-lasting handbook that will make a difference in the design of systems of all types that are large in scale and/or scope.

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## **About the Author**

**Andrew P. Sage**, PhD, became the First American Bank Professor of Information Technology and Engineering at George Mason University and the first Dean of the School of Information Technology and Engineering. Dr. Sage is a member of the National Academy of Engineering, as well as a Fellow of the IEEE, the American Association for the Advancement of Science, and INCOSE. He is the Editor of the *Wiley Series in Systems Engineering and Management* and of Wiley's *Journal of Systems Engineering*.

**William B. Rouse**, PhD, is a professor in the School of Industrial and Systems Engineering at the Georgia Institute of Technology and holds a joint appointment within the College of Computing. He also serves as Executive Director of the Tennenbaum Institute, a campus-wide research center focused on complex organizational systems. Dr. Rouse is a member of the National Academy of Engineering, as well as a Fellow of the IEEE, the International Council on Systems Engineering, the Institute for Operations Research and the Management Sciences, and the Human Factors and Ergonomics Society.

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