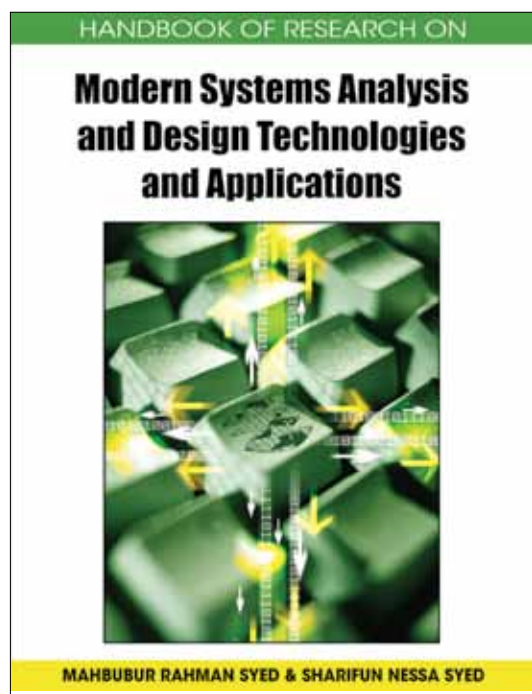


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Released: July 2008

## Handbook of Research on Modern Systems Analysis and Design Technologies and Applications



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and Sharifun Nessa Syed (Minnesota State University - Mankato, USA)

Due to unawareness of the development cycle of systems from its conceptualization to implementation, almost half of corporate IS projects are delayed or abandoned before completion. The introduction of system analysis and design concepts and their implementations have proven to significantly enhance the success rate of system delivery.

**The Handbook of Research on Modern Systems Analysis and Design Technologies and Applications** provides a compendium of more than 300 terms, definitions, and explanations of concepts in various areas of systems and design, as well as 35 cutting-edge research articles from 65 of the field's leading experts that, together, convey the current state of knowledge on systems analysis and design. Further, this incisive reference source fully contextualizes the best contemporary understanding of current and emerging tools by guiding readers through the evolution of systems analysis and design practices.

### Topics Covered:

- Systems analysis and design
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- Soft systems methodology
- Joint application design
- Information engineering
- System life cycle
- Specification development
- Prototyping
- Decision analysis
- Risk analysis
- Model driven analysis
- Accelerated systems analysis
- Feasibility analysis
- Information gathering
- Logical design methods
- Physical design methods
- SAD economics

ISBN: 9781599048871; © 2009; 698 pp.

Print: US \$265.00 | Perpetual: US \$400.00 | Print + Perpetual: US \$530.00

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It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

**Mahbubur Rahman Syed** is currently a professor of information systems and technology at Minnesota State University (Mankato, USA). He has about 25 years of experience in teaching, in industry, in research, and in academic leadership in the field of computer science, engineering, information technology, and systems. Earlier, he worked in the Electrical and Computer Engineering Department at the North Dakota State University (USA) in the School of Computing and Information Technology, Monash University (Australia), in the Department of Computer Science and Engineering in Bangladesh University of Engineering and Technology (Bangladesh) and Ganz Electric Works (Hungary). He was a founding member of the Department of Computer Science and Engineering at BUET and served as Head of the Department during 1986-1992. He served as the General Secretary of Bangladesh Computer Society and also as the General Secretary of BUET Teacher's Association. He received the UNESCO/ROSTSCA' 85 award for South and Central Asia region in the field of informatics and computer applications in scientific research. He won several other awards. He has co-edited several books in the area of e-commerce, software agents, multimedia systems, and networking. He guest edited the 2001 fall issue of *IEEE Multimedia*. He has more than 100 papers published in journals and conference proceedings. He has been serving in different roles such as co-editor-in-chief, associate editor, editorial review committee, member of several international journals. Dr. Syed has been involved in international professional activities including organizing conferences and serving as conference and program committee chair.