



SIGNALS AND SYSTEMS

By K. RAJA RAJESWARI, B. VISVESVARA RAO

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The book, in its Second Edition, continues to provide a comprehensive treatment of signals and systems commencing from an elementary level and going on to a thorough analysis of mathematical tools such as Fourier transform, Laplace transform, Z-transform and Discrete-time Fourier transform. The concepts of convolution and correlation and their relationship have been explained in a clear and lucid manner. Both continuous-time and discrete-time signals and systems have been covered, and thoroughly supported with adequate number of explained examples.

The book is intended for the BE/BTech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Communication Technology (ICT), Telecommunication Engineering and Biomedical Engineering.

NEW TO THIS EDITION

- A new chapter on MATLAB programming for generation of continuous-time and discrete-time series is added.
- MATLAB solutions have been given for stability testing of discrete-time systems.
- Sections on simple electronic systems realization have been added in existing Chapter 6.
- More solved examples, problems and multiple choice questions, have been added in almost every chapter to reinforce the understanding of the theory.

AUDIENCE

- BE/BTech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Communication Technology (ICT), Telecommunication Engineering and Biomedical Engineering.

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SIGNALS AND SYSTEMS By K. RAJA RAJESWARI, B. VISVESVARA RAO Bibliography

- Sales Rank: #531865 in eBooks
- Published on: 2014-03-24
- Released on: 2014-03-24
- Format: Kindle eBook



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Editorial Review

About the Author

K. Raja Rajeswari, PhD, is Principal, Viswanadha Institute of Technology and Management (VITAM), Visakhapatnam, India. Earlier, she has served as Professor in the Department of Electronics and Communication Engineering, College of Engineering (Autonomous), Andhra University, Visakhapatnam, India. She has published more than 200 papers in IEE, IEEE and IETE journals and presented many papers in national and international conferences. Dr. Rajeswari is expert member for the Department of Science and Technology (DST), New Delhi under the women scientist scheme. She is also expert member for National Board of Accreditation (NBA), All India Council of Technical Education, New Delhi, India. She has guided eighteen PhDs, and presently twelve are working under her guidance. Her research interests include radar/sonar signal processing and wireless mobile communications. B. Visvesvara Rao, PhD, is Professor and Head, Department of Electronics and Communication Engineering, Mahaveer Institute of Science and Technology (MIST), Hyderabad, India. Earlier, he was with Jawaharlal Nehru Technological University, College of Engineering, Kakinada for 35 years. He has published/presented several papers in international/national journals and conferences.

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