

Introduction to Wave Phenomena

Hirose, Akira

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Akira Hirose Introduction To Wave Phenomena

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Akira Hirose Introduction To Wave Phenomena :

Introduction to Wave Phenomena Akira Hirose, Karl Erik Lonngren, 2003 Fundamentals of Wave Phenomena Akira Hirose, Karl E. Lonngren, 2010-05-15 This textbook provides a unified treatment of waves that either occur naturally or can be excited and propagated in various media This includes both longitudinal and transverse waves The book covers both mechanical and electrical waves which are normally covered separately due to their differences in physical phenomena

Math and Bio 2010 Lynn Arthur Steen, 2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi *Complex-Valued Neural Networks* Akira Hirose, 2013-05-08 Presents the latest advances in complex valued neural networks by demonstrating the theory in a wide range of applications Complex valued neural networks is a rapidly developing neural network framework that utilizes complex arithmetic exhibiting specific characteristics in its learning self organizing and processing dynamics They are highly suitable for processing complex amplitude composed of amplitude and phase which is one of the core concepts in physical systems to deal with electromagnetic light sonic ultrasonic waves as well as quantum waves namely electron and superconducting waves This fact is a critical advantage in practical applications in diverse fields of engineering where signals are routinely analyzed and processed in time space frequency and phase domains Complex Valued Neural Networks Advances and Applications covers cutting edge topics and applications surrounding this timely subject Demonstrating advanced theories with a wide range of applications including communication systems image processing systems and brain computer interfaces this text offers comprehensive coverage of Conventional complex valued neural networks Quaternionic neural networks Clifford algebraic neural networks Presented by international experts in the field Complex Valued Neural Networks Advances and Applications is ideal for advanced level computational intelligence theorists electromagnetic theorists and mathematicians interested in computational intelligence artificial intelligence machine learning theories and algorithms **Nonlinear Waves in Random Media** John Baptist Tet-Choi Thoo, 2000 Applied Mechanics Reviews , 1985 *American Journal of Physics* , 1985 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics *Optics News* , 1986 Includes a directory of members in one issue each year Complex-valued Neural Networks: Theories And Applications Akira Hirose, 2003-11-18 In recent years complex valued neural networks have widened the scope of application in optoelectronics imaging remote sensing quantum neural devices and systems spatiotemporal analysis of physiological neural systems and artificial neural information processing In this first ever book on complex valued neural networks the most active scientists at the forefront of the field describe theories and applications from various points of view to provide

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Minho Lee,Akira Hirose,Zeng-Guang Hou,Rhee Man Kil,2013-10-29 The three volume set LNCS 8226 LNCS 8227 and LNCS 8228 constitutes the proceedings of the 20th International Conference on Neural Information Processing ICONIP 2013 held in Daegu Korea in November 2013 The 180 full and 75 poster papers presented together with 4 extended abstracts were carefully reviewed and selected from numerous submissions These papers cover all major topics of theoretical research empirical study and applications of neural information processing research The specific topics covered are as follows
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