

## *Andreas Antoniou Digital Signal Processing Solutions*

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*presents trends and techniques for successful intelligent decision making and transfer of products through digital signal processing*

*this book is about improving prohibited substances detection using the nuclear quadrupole resonance nqr technique at security checkpoints the book proposes multiple signal processing and analysis techniques for improving detection of dangerous or contraband substances such as explosives narcotics or toxic substances also several hardware solutions are described and implemented in a custom designed nqr spectrometer a new approach to nqr signal detection is introduced using artificial intelligence deep learning techniques the book will be useful for researchers and practitioners in the areas of electrical engineering signal processing and analysis applied spectroscopy as well as for security or laboratory equipment manufacturers*

*this book provides a thorough theoretical and practical introduction to the application of neural networks to pattern recognition and intelligent signal processing it has been tested on students unfamiliar with neural networks who were able to pick up enough details to successfully complete their masters or final year undergraduate projects the text also presents a comprehensive treatment of a class of neural networks called common bandwidth spherical basis function nns including the probabilistic nn the modified probabilistic nn and the general regression nn*

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