

Practical Signal Processing Mark Owen

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this book introduces the basic theory of digital signal processing with emphasis on real world applications

sound music projects for eurorack beyond explores the intersection of music electronics and computer science and provides a practical path for musicians and sound designers to envision and create custom electronic instruments the book explores these concepts in the context of

eurorack a popular framework for mounting and interconnecting electronic instruments

the principles of signal processing are fundamental to the operation of many everyday devices this book introduces the basic theory of digital signal processing with emphasis on real world applications sampling quantisation the fourier transform filters bayesian methods and numerical considerations are covered then developed to illustrate how they are used in audio image and video processing and compression and in communications the book concludes with methods for the efficient implementation of algorithms in hardware and software intuitive arguments rather than mathematical ones are used wherever possible and links between various signal processing techniques are stressed the advantages and disadvantages of different approaches are presented in the context of real world examples enabling the reader to choose the best solution to a given problem with over 200 illustrations and over 130 exercises including solutions this book will appeal to practitioners working in signal processing and undergraduate students of electrical and computer engineering

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