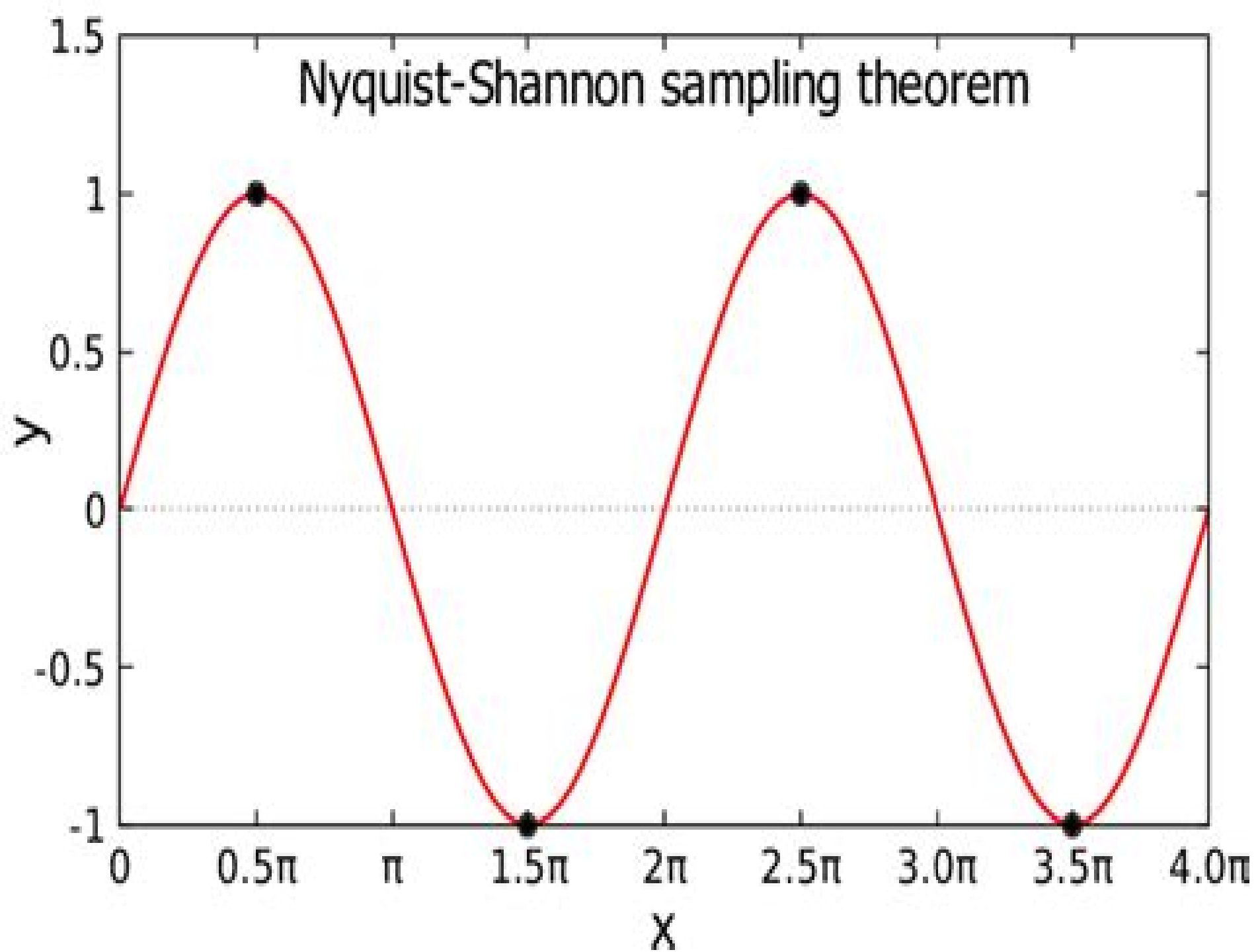


Nyquist-Shannon sampling theorem



Nyquist And Shannon

Robert J II Marks



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Nonuniform Sampling Farokh Marvasti, 2012-12-06 Our understanding of nature is often through nonuniform observations in space or time. In space, one normally observes the important features of an object such as edges. The less important features are interpolated. History is a collection of important events that are nonuniformly spaced in time. Historians infer between events. Interpolation and politicians and stock market analysts forecast the future from past and present events. Extrapolation. The 20 chapters of Nonuniform Sampling Theory and Practice contain contributions by leading researchers in nonuniform and Shannon sampling, zero crossing, and interpolation theory. Its practical applications include NMR, seismology, speech, and image coding, modulation and coding, optimal content array processing, and digital filter design. It has a tutorial outlook for practising engineers and advanced students in science, engineering, and mathematics. It is also a useful reference for scientists and engineers working in the areas of medical imaging, geophysics, astronomy, biomedical engineering, computer graphics, digital filter design, speech, and video processing, and phased array radar.

Discrete Sampling, Discrete Generalizations of the Nyquist-Shannon Sampling Theorem William David Wu, 2010 The Nyquist-Shannon sampling theorem is ubiquitously used in telecommunications, control, audio, imaging, and speech applications. This dissertation generalizes Shannon's sampling theorem in the finite dimensional setting. Namely, we ask when it is possible to interpolate a signal from a limited number of samples when the signal is drawn from a general finite dimensional vector space. Which vector spaces will admit such an interpolation equation? What algebraic properties must be satisfied? When can we find an orthogonal interpolating basis? We first establish a simple theoretical foundation which we call discrete sampling that answers these questions. We then apply this theory to bandlimited spaces in which certain frequencies are activated and others are not. We present algorithms for constructing all possible Nyquist-Shannon style interpolation equations for a given bandlimited space, yielding a sampling dictionary. Many patterns are revealed in these dictionaries, establishing connections with group theory, number theory, and graph theory, specifically orbit counting, prime factorization, cliques, and perfect graphs, difference sets, vanishing sums of roots of unity, and the DFT. Lastly, we conduct a similar investigation of discrete Haar wavelet spaces in which certain wavelet basis vectors are activated. The problem of constructing interpolation equations then reduces to an analysis of posets and Hasse diagrams. We conclude with open problems and ideas for future research.

Data-Driven Science and Engineering Steven L. Brunton, J. Nathan Kutz, 2022-05-05 A textbook covering data science and machine learning methods for modelling and control in engineering and science with Python and MATLAB.

Signals and Systems Richard Baraniuk, 2009-09-24 This text deals with signals systems and transforms from their theoretical mathematical foundations to practical implementation in circuits and computer algorithms At its conclusion learners will have a deep understanding of the mathematics and practical issues of signals in continuous and discrete time linear time invariant systems convolution and Fourier transforms

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Modern Sampling Theory John J. Benedetto, Paulo J.S.G. Ferreira, 2012-12-06 A state of the art edited survey covering all aspects of sampling theory Theory methods and applications are discussed in authoritative expositions ranging from multi dimensional signal analysis to wavelet transforms The book is an essential up to date resource

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The Mathematical Theory of Communication Claude Elwood Shannon,Warren Weaver,1962

Python for Signal Processing José Unpingco, 2013-10-04 This book covers the fundamental concepts in signal processing illustrated with Python code and made available via IPython Notebooks which are live interactive browser based documents that allow one to change parameters redraw plots and tinker with the ideas presented in the text Everything in the text is computable in this format and thereby invites readers to experiment and learn as they read The book focuses on the core fundamental principles of signal processing The code corresponding to this book uses the core functionality of the scientific Python toolchain that should remain unchanged into the foreseeable future For those looking to migrate their signal processing codes to Python this book illustrates the key signal and plotting modules that can ease this transition For those already comfortable with the scientific Python toolchain this book illustrates the fundamental concepts in signal processing and provides a gateway to further signal processing concepts

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Practical Digital Wireless Signals Earl McCune, 2010-02-04 Do you need to know what signal type to select for a wireless application Quickly develop a useful expertise in digital modulation with this practical guide based on the author's experience of over thirty years in industrial design You will understand the physical meaning behind the mathematics of wireless signals and learn the intricacies and tradeoffs in signal selection and design Six modulation families and twelve modulation types are covered in depth together with a quantitative ranking of relative cost incurred to implement any of twelve modulation types Extensive discussions of the Shannon Limit Nyquist filtering efficiency measures and signal to noise measures are provided radio wave propagation and antennas multiple access techniques and signal coding principles are all covered and spread spectrum and wireless system operation requirements are presented

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