

Experiment No.1

AMPLITUDE SHIFT KEYING

Aim: To generate and demodulate amplitude shift keyed (ASK) signal using MATLAB

Theory

Generation of ASK

Amplitude shift keying - ASK - is a modulation process, which imparts to a sinusoid two or more discrete amplitude levels. These are related to the number of levels adopted by the digital message. For a binary message sequence there are two levels, one of which is typically zero. The data rate is a sub-multiple of the carrier frequency. Thus the modulated waveform consists of bursts of a sinusoid. One of the disadvantages of ASK, compared with FSK and PSK, for example, is that it has not got a constant envelope. This makes its processing (eg. power amplification) more difficult, since linearity becomes an important factor. However, it does make for ease of demodulation with an envelope detector.

Demodulation

ASK signal has a well defined envelope. Thus it is amenable to demodulation by an envelope detector. Some sort of decision-making circuitry is necessary for detecting the message. The signal is recovered by using a correlator and decision making circuitry is used to recover the binary sequence.

Algorithm

Initialization commands

ASK modulation

1. Generate carrier signal.
2. Start FOR loop
3. Generate binary data, message signal(on-off form)
4. Generate ASK modulated signal.
5. Plot message signal and ASK modulated signal.
6. End FOR loop.
7. Plot the binary data and carrier.

ASK demodulation

1. Start FOR loop
2. Perform correlation of ASK signal with carrier to get decision variable
3. Make decision to get demodulated binary data. If $x > 0$, choose '1' else choose '0'
4. Plot the demodulated binary data.

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JL Elias



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Circuit Analysis (for Anna University) Gnanasivam, 2017 Handbook of Research on Emerging Trends and Applications of Machine Learning Solanki, Arun, Kumar, Sandeep, Nayyar, Anand, 2019-12-13 As today's world continues to advance Artificial Intelligence AI is a field that has become a staple of technological development and led to the advancement of numerous professional industries An application within AI that has gained attention is machine learning Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence In addition this book explores the critical role that machine learning plays in a variety of professional fields including healthcare business and computer science While highlighting topics including image processing predictive analytics and smart grid management this book is ideally designed for developers data scientists business analysts information architects finance agents healthcare professionals researchers retail traders professors and graduate students seeking current research on the benefits implementations and trends of machine learning *A Selected Listing of NASA Scientific and Technical Reports for 1966* United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1967 A Selected Listing of NASA Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966 **Cognitive Behavioural Systems** Anna Esposito, Antonietta M. Esposito, Alessandro Vinciarelli, Rüdiger Hoffmann, Vincent Müller, 2012-11-19 This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden Germany in February 2011 The 39 revised full papers presented were carefully reviewed and selected from various submissions The volume presents new and original research results in the field of human machine interaction inspired by cognitive behavioural human human interaction features The themes covered are on cognitive and computational social information processing emotional and social believable Human Computer Interaction HCI systems behavioural and contextual analysis of interaction embodiment perception linguistics semantics and sentiment analysis in dialogues and interactions algorithmic and computational issues for the automatic recognition and synthesis of emotional states **Resources in Education**, 1986 Simulations and Student Learning Matthew Schnurr, Anna MacLeod, 2021-01-04 The book underlines the value of simulation based education as an approach that fosters authentic engagement and deep learning Expert Systems: Applications to Urban Planning T.J. Kim, Lyna L. Wiggins, J.R. Wright, 2012-12-06 e FACHGEBIET Mathematical Geology Computer Applications Artificial Intelligence Urban Economics and Regional Economics INTERESSENTENGRUPPE Of interest to Urban and Regional planners civil engineers geographers

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