$pds_hb.m$

Fernando Pujaico Rivera

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Abstract

The function pds_hb() represent the binary entropy.

1 Introduction

The function pds_hb() in the m-file pds_hb.m is defined as:

 $H = pds_hb(P);$

This function represent the formulation of binary entropy H of probability P.

$$H = -P \log_2(P) - (1 - P) \log_2(1 - P) \tag{1}$$

This form is showed in [1].

References

[1] Thomas M. Cover and Joy A. Thomas. Elements of Information Theory 2nd Edition. Wiley Series in Telecommunications and Signal Processing. Wiley-Interscience, 2 edition, July 2006.