

pds_hb.m

Fernando Pujaico Rivera

August 23, 2015

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 .

$$H = -P \log_2(P) - (1 - P) \log_2(1 - P) \quad (1)$$

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.