hb_func.m

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Abstract

The function hb_func() represent the binary entropy.

1   Introduction

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

```
H = hb_func(P);
```

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

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

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.