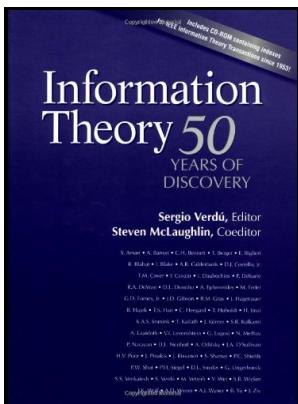


# Information theory.

Dover Publications - Digital Communication



Description: -

-Information theory.

-Information theory.

Notes: Originally published New York: Prentice-Hall, 1953.

This edition was published in 1968



Filesize: 14.83 MB

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## What is information theory? definition and meaning

} This formula is usually referred to as the continuous entropy, or. In classical thermodynamics, entropy is defined in terms of macroscopic measurements and makes no reference to any probability distribution, which is central to the definition of information entropy.

## EE 376A: Information Theory

Now, consider the case that the same poll is performed a second time shortly after the first poll.

## Information Theory & Applications

Assume that a probability distribution  $p$  is with respect to a measure  $m$ , i.

## Claude E. Shannon: Founder of Information Theory

In this case, 'A' would be coded as '0' one bit , 'B' as '10', and 'C' and 'D' as '110' and '111'. When there are several equally likely choices, the number of bits is equal to the logarithm of the number of choices taken to the base two. In the example above, the entropy is equal to From the viewpoint stated, the entropy of an infinite aggregate, as a rule, turns out to be infinite.

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