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probability that a
project will finish
early or late (PERT)

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method, Lovasz local

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The probabilistic

method is a

nonconstructive

method, primarily

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Probabilistic

Method
used in combinatorics and
pioneered by Paul

Erdős, for proving the
existence of a

prescribed kind of
mathematical object.

It works by showing
that if one randomly
chooses objects from
a specified class, the
probability that the
result is of the
prescribed kind is

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strictly greater than
zero.

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- Wikipedia

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field while
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standard of
excellence that

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established this book
as the leading
reference on
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methods in
combinatorics.

Maintaining its clear
writing style,
illustrative examples,
and practical
exercises, this new
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methodology,
enabling readers to

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use probabilistic
techniques for
solving problems in
such fields as
theoretical computer
science, mathematics
...

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When it was first
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instantly the

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on one of the most

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used tools in

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without competition

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speed on recent

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Joel H. Spencer

released in 1990. I

was first introduced

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to it around 2007,
and it ' s been a
source of delight to
return to...

What is the
Probabilistic Method?
| by Matthew Ward ...
The probabilistic
method is a
remarkable
technique for proving
the existence of
combinatorial objects

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with specified properties. It is based on probability theory but, surprisingly, it can be used for proving theorems that have nothing to do with probability. The usual approach can be described as follows.

The Probabilistic Method

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Emphasizing the methodology and techniques that enable problem-solving, The Probabilistic Method, Fourth Edition begins with a description of tools applied to probabilistic arguments, including basic techniques that use expectation and variance as well as

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the more advanced applications of martingales and correlation inequalities. The authors explore where probabilistic techniques have been applied successfully and also examine topical coverage such as discrepancy and random graphs,

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The Probabilistic
Method (Wiley Series
in Discrete ...

The basic
Probabilistic Method
can be described as
follows: In order to
prove the existence
of a combinatorial
structure with certain
properties, we
construct an ap-

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Method

appropriate probability space and show that a randomly chosen element in this space has the desired properties with positive probability. This method was initiated by

The Probabilistic
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edges are the same

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color). The

probabilistic method. The probability A_R occurs for any given R is 2^{1-k} , since there are only 2 ways to color R , and thus the total probability that K_n is monochromatic is $\Pr \leq \sum_{R \in \mathcal{R}} 2^{1-k} = 2^{1-k} |\mathcal{R}| = 2^{1-k} \binom{n}{k}$ and we can “union bound” this: the total probability is at most the sum of the probabilities of the

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Probabilistic events,

so

Pr(monochromatic) X

R Pr(A R) = $n k$

The Probabilistic

Method in

Combinatorics

The Probabilistic

Method - Basic ideas

We draw materials

mainly from [2,4]. To

show that some

(combinatorial)

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object exists, one can envision working on some probability space which the object lives in, and show that the probability of such an existence is strictly positive.

The Probabilistic Method - Basic ideas
The Probabilistic Method is one of the

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Most powerful and widely used tools applied in combinatorics. One of the major reasons for its rapid development is the important role of randomness in theoretical computer science and in statistical physics.

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probabilistic
methods in

combinatorics.

Maintaining its clear
writing style,
illustrative examples,
and practical ...

The Probabilistic
Method (豆瓣)

The “ probabilistic
method ” is the art of
applying probabilistic

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The

probabilistic
Method
thinking to non-
probabilistic
problems.

Applications of the probabilistic method often feel like magic. Here is my favorite example: Theorem (Erdős, 1965). Call a set sum-free if for all $x, y \in A$, we have $x + y \notin A$. For any finite set of positive integers, there is a sum-free subset of

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size. Probabilistic

Method

My favorite example of: the probabilistic method ...

The Probabilistic Method The lower bound on number of satisfiable clauses is an example of the probabilistic method. We showed the existence of a non-obvious property of

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The

3-SAT by showing
that a random
construction
produces it with
positive probability.

CS 511 (Iowa State
University) A

Randomized
Approximation
Algorithm for MAX
3-SAT December 8,
2008 8 / 12

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Method The lower bound on number of ...

This is exercise 2.7.2 of the book "the probabilistic method". Suppose $p > n > 10m^2$, with p prime, and let $0 < a_1 < a_2 < \dots < a_m < p$ be integers. Prove that there is an integer x , $0 < x < p$, for which the m numbers

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($x_i \pmod{p}$) mod n , $1 \leq i \leq m$ are pairwise distinct. And I think this problem in this way.

The probabilistic method exercise 2.7.4 - Mathematics ...

Definition:

Probability sampling is defined as a sampling technique in which the

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researcher chooses samples from a larger population using a method based on the theory of probability. For a participant to be considered as a probability sample, he/she must be selected using a random selection.

Probability Sampling:
Definition, Methods

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and Examples

Written by two leading authorities in the field, The Probabilistic Method, Third Edition is an ideal reference for researchers in combinatorics and algorithm design who would like to better...

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Joel H. Spencer ...

Berkeley Math Circle

Oct 2, 2019 The

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is a a very powerful

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Method, Fourth

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