

# LOIS DISCRÈTES (Partie 1)

## I. Loi uniforme discrète

Exemple :

1) On lance un dé et on appelle  $X$  le résultat du lancer.

Alors  $P(X=1)=P(X=2)=P(X=3)=P(X=4)=P(X=5)=P(X=6)=\frac{1}{6}$ .

On dira que  $X$  suit une loi uniforme sur  $\{1,2,3,4,5,6\}$ .

2) On lance une pièce de monnaie. La probabilité d'obtenir « pile » est égale à la probabilité d'obtenir « face », toutes deux égales à  $\frac{1}{2}$ .

Dans ce cas,  $X$  suit également une loi uniforme.

**Définition :** On dit que  $X$  suit une loi uniforme discrète sur l'ensemble  $\{1, \dots, n\}$  si pour tout entier  $i$  de  $\{1, \dots, n\}$ , on a :  $P(X=i)=\frac{1}{n}$ .

**Propriété :** Soit  $X$  une variable aléatoire qui suit la loi uniforme discrète de paramètre  $n$ , alors :

$$E(X)=\frac{n+1}{2}.$$

Démonstration :

$$E(X)=1 \times \frac{1}{n} + 2 \times \frac{1}{n} + 3 \times \frac{1}{n} + \dots + n \times \frac{1}{n}$$

$$= \frac{1}{n} (1+2+3+\dots+n)$$

$$= \frac{1}{n} \times \frac{n(n+1)}{2} = \frac{n+1}{2}$$

## II. Répétition d'expériences indépendantes

Exemples :

1) On lance un dé plusieurs fois de suite et on note à chaque fois le résultat. On répète ainsi la même expérience (lancer un dé) et les expériences sont indépendantes l'une de l'autre (un lancer n'influence pas le résultat d'un autre lancer).

2) Une urne contient 2 boules blanches et 3 boules noires. On tire au hasard une boule et on la remet dans l'urne.

On répète cette expérience 10 fois de suite. Ces expériences sont identiques et indépendantes.

**Définition :** Plusieurs expériences sont **identiques et indépendantes** si :

- elles ont les mêmes issues,
- chaque issue possède la même probabilité.

**Propriété :** On considère une expérience aléatoire à deux issues A et B avec les probabilités  $P(A)$  et  $P(B)$ .

Si on répète l'expérience deux fois de suite de façon indépendante :

- la probabilité d'obtenir l'issue A suivie de l'issue B est égale à  $P(A) \times P(B)$ .

# Mathematiques Discretes 1

**W. D. Wallis**



## **Mathematiques Discretes 1:**

*The Discrete Math Workbook* Sergei Kurgalin, Sergei Borzunov, 2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including Turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language

A Beginner's Guide to Discrete Mathematics W. D. Wallis, 2003 This introduction to discrete mathematics is aimed primarily at undergraduates in mathematics and computer science at the freshmen and sophomore levels The text has a distinctly applied orientation and begins with a survey of number systems and elementary set theory Included are discussions of scientific notation and the representation of numbers in computers Lists are presented as an example of data structures An introduction to counting includes the Binomial Theorem and mathematical induction which serves as a starting point for a brief study of recursion The basics of probability theory are then covered Graph study is discussed including Euler and Hamilton cycles and trees This is a vehicle for some easy proofs as well as serving as another example of a data structure Matrices and vectors are then defined The book concludes with an introduction to cryptography including the RSA cryptosystem together with the necessary elementary number theory e g Euclidean algorithm Fermat's Little Theorem Good examples occur throughout At the end of every section there are two problem sets of equal difficulty However solutions are only given to the first set References and index conclude the work A math course at the college level is required to handle this text College algebra would be the most helpful

**Integer Programming and Related Areas** R.v. Randow, 2012-12-06      **Probabilistic Methods in Discrete Mathematics** Valentin Fedorovič Kolčín, 1997-01-01      *Conformal Geometry of Discrete Groups and Manifolds* Boris N. Apanasov, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied

mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021

Discrete Mathematics and Applications Kevin Ferland, 2017-09-19 Discrete Mathematics and Applications Second Edition is intended for a one semester course in discrete mathematics Such a course is typically taken by mathematics mathematics education and computer science majors usually in their sophomore year Calculus is not a prerequisite to use this book Part one focuses on how to write proofs then moves on to topics in number theory employing set theory in the process Part two focuses on computations combinatorics graph theory trees and algorithms Emphasizes proofs which will appeal to a subset of this course market Links examples to exercise sets Offers edition that has been heavily reviewed and developed Focuses on graph theory Covers trees and algorithms

Handbook of Discrete and Combinatorial Mathematics Kenneth H. Rosen, 1999-09-28 The importance of discrete and combinatorial mathematics continues to increase as the range of applications to computer science electrical engineering and the biological sciences grows dramatically Providing a ready reference for practitioners in the field the Handbook of Discrete and Combinatorial Mathematics Second Edition presents additional material on Google s matrix random graphs geometric graphs computational topology and other key topics New chapters highlight essential background information on bioinformatics and computational geometry Each chapter includes a glossary definitions facts examples algorithms major applications and references

*Discrete Mathematics with Applications* Thomas Koshy, 2004-01-19 This approachable text studies discrete objects and the relationships that bind them It helps students understand and apply the power of discrete math to digital computer systems and other modern applications It provides excellent preparation for courses in linear algebra number theory and modern abstract algebra and for computer science courses in data structures algorithms programming languages compilers databases and computation Covers all recommended topics in a self contained comprehensive and understandable format for students and new professionals Emphasizes problem solving techniques pattern recognition conjecturing induction applications of varying nature proof

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 held a number of positions in the USA and Germany before moving to Berlin He is the author of several books on discrete  
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## **Table of Contents Mathematiques Discretes 1**

1. Understanding the eBook Mathematiques Discretes 1
  - The Rise of Digital Reading Mathematiques Discretes 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematiques Discretes 1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematiques Discretes 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematiques Discretes 1
  - Personalized Recommendations
  - Mathematiques Discretes 1 User Reviews and Ratings
  - Mathematiques Discretes 1 and Bestseller Lists
5. Accessing Mathematiques Discretes 1 Free and Paid eBooks
  - Mathematiques Discretes 1 Public Domain eBooks
  - Mathematiques Discretes 1 eBook Subscription Services
  - Mathematiques Discretes 1 Budget-Friendly Options
6. Navigating Mathematiques Discretes 1 eBook Formats

- ePub, PDF, MOBI, and More
- Mathematiques Discretes 1 Compatibility with Devices
- Mathematiques Discretes 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematiques Discretes 1
  - Highlighting and Note-Taking Mathematiques Discretes 1
  - Interactive Elements Mathematiques Discretes 1
- 8. Staying Engaged with Mathematiques Discretes 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematiques Discretes 1
- 9. Balancing eBooks and Physical Books Mathematiques Discretes 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematiques Discretes 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematiques Discretes 1
  - Setting Reading Goals Mathematiques Discretes 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematiques Discretes 1
  - Fact-Checking eBook Content of Mathematiques Discretes 1
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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journey music from episodes i vi

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