

# MATEMÁTICAS DISCRETA Y COMBINATORIA

UNA INTRODUCCIÓN CON APLICACIONES

**RALPH P. GRIMALDI**

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# Matematica Discreta Libro

**S Nieto**



## Matemática Discreta Libro:

**MATEMÁTICAS DISCRETAS** Richard Johnsonbaugh, 2005 Este libro se dise para un curso de introducci n a matem ticas discretas La exposici n es clara y adecuada adem s de que contiene abundantes ejercicios Esta edici n igual que las anteriores incluye temas como algoritmos combinatoria conjuntos funciones e inducci n matem tica Tambi n toma en cuenta la comprensi n y construcci n de pruebas y en general el reforzamiento matem tico El primer cap tulo de l gica y demostraciones se ampli en forma considerable Se agregaron ejemplos de l gica en lenguajes de programaci n Se presentan varios ejemplos de algoritmos antes de llegar a la notaci n de O may scula Un nuevo cap tulo de introducci n a la teor a de n meros Este cap tulo incluye resultados cl sicos como la divisibilidad la infinitud de los primos el teorema fundamental de la aritm tica as como los algoritmos de teor a de n meros *Matemática discreta y l gica matemática* ,2001 Invitaci n a la matemática discreta Jiří Matoušek, Anna Lladó Sánchez, Jaroslav Nesetril, 2008 Invitaci n a la matem tica discreta es una introducci n clara accesible y autocontenida a la matem tica discreta y en particular a la combinatoria y la teor a de grafos Est orientada a estudiantes de grado y primeros cursos de postgrado y ha sido escrita con el prop sito de estimular el inter s por las matem ticas a trav s de una aproximaci n activa al material por medio de la resoluci n de problemas La obra se centra en un espectro menor de temas que la mayor a de textos de matem tica discreta con la intenci n de abordar los contenidos seleccionados con una profundidad poco com n y bajo puntos de vista diversos El libro refleja la convicci n de los autores que el mayor provecho que se obtiene estudiando matem ticas es el cultivo de un pensamiento l gico y transparente Los m s de 400 ejercicios que acompa an al texto de diferentes grados de dificultad y muchos de ellos con indicaciones para su soluci n sostienen esa opini n La obra est escrita con un estilo vivaz e informal y ha sido ilustrada con m s de 200 diagramas y dibujos *Matemáticas discretas y combinatoria : una introducci n con aplicaciones* Ralph P. Grimaldi, 1998 **Matemática discreta con apoyo de software** Enrique Vílchez Quesada, 2021-11-30 Esta obra aborda una serie de contenidos esenciales relacionados con el campo de la matem tica discreta El texto cubre los temas de recursividad relaciones de recurrencia an lisis de algoritmos relaciones binarias teor a de grafos teor a de rboles m quinas y aut matas de estado finito y lenguajes y gram ticas Despu s de muchos a os de experiencia de aula el autor brinda en este libro una exposici n disruptiva al incorporar una combinaci n propicia entre la teor a cl sica el desarrollo de una cantidad relevante de ejemplos y el uso de software como un recurso did ctico fundamental **Estructuras de matemáticas discretas para la computaci n** Bernard Kolman, Robert C. Busby, Sharon Ross, 1997 **Matemática discreta** Francesc Comellas Padró, 2009-09 La matem tica discreta es la parte de las matem ticas que trata de estructuras finitas y numerables Esta nueva rama de la ciencia matem tica ha recibido un impulso decisivo gracias a los recientes progresos de la inform tica y las t cnicas de computaci n Matemática discreta Francisco Javier Cirre Torres, 2004 Matemática discreta y combinatoria Luis Verde Star, 1996 **Problemas, cuestiones y aplicaciones de matemática discreta** SEOANE SEPÚLVEDA, JUAN BENIGNO, JORDÁN

LLUCH, CRISTINA, MURILLO ARCILA, MARINA, 2022-09-02 La matemática discreta es la disciplina dedicada al estudio de estructuras cuyos elementos pueden contarse uno por uno separadamente A diferencia del Cálculo infinitesimal estudia procesos con conjuntos numerables ya sean finitos o infinitos Forma parte de los planes de estudios de ingenierías informática ciencia de la computación como obviamente de matemáticas por lo que esta obra va dirigida a todos los lectores interesados en estas materias Se trata de un libro de problemas resueltos en el que cada capítulo comienza con un breve resumen te rico cuyo propósito es proporcionar los conceptos básicos para poder resolver dichos problemas Como apoyo te rico el lector puede acudir entre la bibliografía que se propone al canal de YouTube El lado discreto de las mates de sus autores Entre todos los temas que abarca la matemática discreta este texto distribuido en seis capítulos se centra en la teoría de conjuntos la lógica el principio de inducción el estudio de aplicaciones y relaciones binarias y la teoría de la divisibilidad con una breve introducción a la teoría de números También incluye ejercicios que modelizan situaciones reales una de las aplicaciones de esta materia Respecto a la teoría de grafos parte importante de la matemática discreta indicamos que es objeto de estudio independiente en el libro Teoría de grafos y modelización Problemas resueltos de esta misma editorial Se presenta la resolución de todos los problemas de forma muy clara y detallada a la vez que rigurosa tratando de hacer la materia cercana y atractiva al lector Cristina Jordán Lluch es profesora titular de universidad en el Departamento de Matemática Aplicada de la Universitat Politècnica de València Es miembro del Instituto Universitario de Matemática Multidisciplinar IMM Marina Murillo Arcila es profesora titular de universidad en el Departamento de Matemática Aplicada de la Universitat Politècnica de València Es miembro del Instituto de Matemática Pura y Aplicada IUMPA Juan B Seoane Sepúlveda es catedrático de Análisis Matemático de la Universidad Complutense de Madrid Es miembro del Instituto de Matemática Interdisciplinar IMI de la UCM

**Matemática discreta y lógica** Winfried K. Grassmann, 1997 Matemática Discreta Y Aplicaciones J. M. Perez Kenneth H. Rosen, 2004 **Elementos de Matemática Discreta** Emilio Bujalance, 1997 **Matemáticas discretas** Ramón Espinosa, 2010-09-30 Libro de texto para los primeros años de las carreras del área de ciencias de la informática y computación Presenta de forma completa y axiomática los temas y en cada capítulo incluye problemas resueltos que ilustran la teoría y una exposición de las aplicaciones más importantes de las matemáticas discretas Cada capítulo incluye Objetivos específicos exposición completa y axiomática de los temas problemas resueltos que ilustran la teoría

**Matemáticas discretas** Richard Johnsonbaugh, 1999 **MATEMÁTICAS DISCRETAS** T. Veerarajan, 2008-01-29 **Matemáticas discretas con aplicaciones (4a. ed.)**. Susanna S. Epp, 2011 **Matemática discreta** Manuel Abellanas, Dolores Lodaes, 1990 El objetivo del libro es familiarizar al lector con la formalización matemática de diferentes problemas actividad imprescindible a la hora de abordar problemas de ciencias de la computación **Problemas de matemática discreta** Carmen Alegre Gil, Ana Martínez Pastor, Ma Carmen Pedraza Aguilera, 1997 **Elementos de matemática discreta**, 1993

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