K D Joshi

Foundations of Discrete Mathematics

Foundations Of Discrete Mathematics K D Joshi

Baha Alzalg

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Foundations of Discrete Mathematics K. D. Joshi,1989 This Book Is Meant To Be More Than Just A Text In Discrete Mathematics It Is A Forerunner Of Another Book Applied Discrete Structures By The Same Author The Ultimate Goal Of The Two Books Are To Make A Strong Case For The Inclusion Of Discrete Mathematics In The Undergraduate Curricula Of Mathematics By Creating A Sequence Of Courses In Discrete Mathematics Parallel To The Traditional Sequence Of Calculus Based Courses The Present Book Covers The Foundations Of Discrete Mathematics In Seven Chapters It Lays A Heavy Emphasis On Motivation And Attempts Clarity Without Sacrificing Rigour A List Of Typical Problems Is Given In The First Chapter These Problems Are Used Throughout The Book To Motivate Various Concepts A Review Of Logic Is Included To Gear The Reader Into A Proper Frame Of Mind The Basic Counting Techniques Are Covered In Chapters 2 And 7 Those In Chapter 2 Are Elementary But They Are Intentionally Covered In A Formal Manner So As To Acquaint The Reader With The Traditional Definition Theorem Proof Pattern Of Mathematics Chapters 3 Introduces Abstraction And Shows How The Focal Point Of Todays Mathematics Is Not Numbers But Sets Carrying Suitable Structures Chapter 4 Deals With Boolean Algebras And Their Applications Chapters 5 And 6 Deal With More Traditional Topics In Algebra Viz Groups Rings Fields Vector Spaces And Matrices The Presentation Is Elementary And Presupposes No Mathematical Maturity On The Part Of The Reader Instead Comments Are Inserted Liberally To Increase His Maturity Each Chapter Has Four Sections Each Section Is Followed By Exercises Of Various Degrees Of Difficulty And By Notes And Guide To Literature Answers To The Exercises Are Provided At The End Of The Book **Foundations of Discrete Mathematics** Peter Fletcher,Hughes Hoyle,C. Wayne Patty,1991 *Applied Discrete Structures* K. D. Joshi,1997 Although This Book Is Intended As A Sequel To Foundations Of Discrete Mathematics By The Same Author It Can Be Read Independently Of The Latter As The Relevant Background Needed Has Been Reviewed In Chapter 1 The Subsequent Chapters Deal With Graph Theory With Applications Analysis Of Algorithms With A Detailed Study Of A Few Sorting Algorithms And A Discussion Of Tractability Linear Programming With Applications Variations Karmarkars Polynomial Time Algorithm Integer And Quadratic Programming Applications Of Algebra To Polyas Theory Of Counting Galois Theory Coding Theory Of Designs A Chapter On Matroids Familiarises The Reader With This Relatively New Branch Of Discrete Mathematics Even Though Some Of The Topics Are Relatively Advanced An Attempt Has Been Made To Keep The Style Elementary So That A Sincere Student Can Read The Book On His Own A Large Number Of Comments Exercises And References Is Included To Broaden The Readers Scope Of Vision A Detailed Index Is Provided For Easy Reference *Combinatorial and Algorithmic Mathematics* Baha Alzalg,2024-10-21 Detailed review of optimization from first principles supported by rigorous math and computer science explanations and various learning aids Supported by rigorous math and computer science foundations Combinatorial and Algorithmic Mathematics From Foundation to Optimization provides a from scratch understanding to the field of optimization discussing 70 algorithms with roughly 220

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