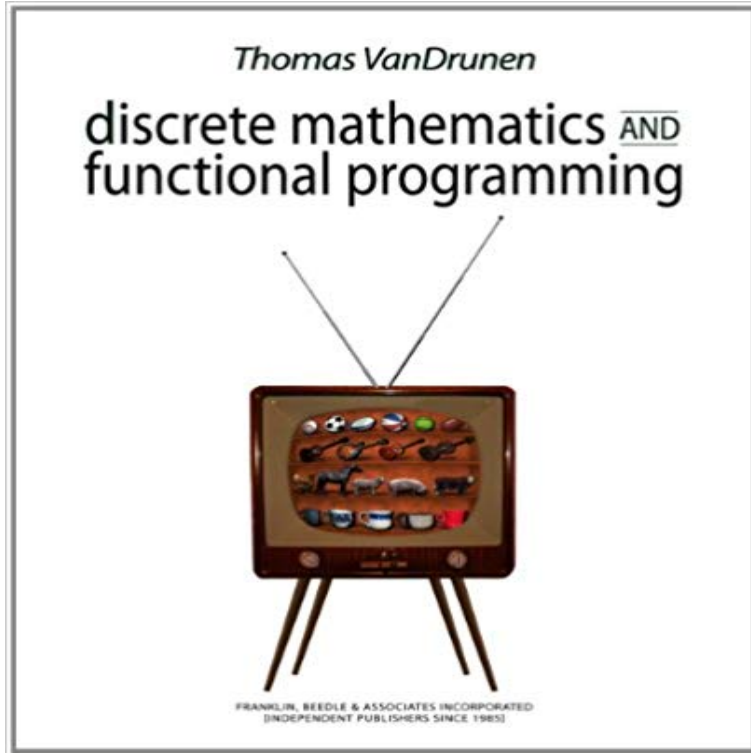# Discrete Mathematics and Functional Programming

This book provides a distinct way to teach discrete mathematics. Since discrete mathematics is crucial for rigorous study in computer science, many texts include applications of mathematical topics to computer science or have selected topics of particular interest to computer science. This text fully integrates discrete mathematics with programming and other foundational ideas in computer science. In fact, this text serves not only the purpose of teaching discrete math. It is also an introduction to programming, although a non-traditional one. Functional programming is a paradigm in which the primary language construct is the function and function here is essentially the same as what it is in mathematics. In the functional paradigm we conceive the program as a collection of composed functions, as opposed to a sequence of instructions (in the imperative paradigm) or a set of interacting objects (in the object-oriented paradigm). Dominant computer science curricula emphasize object-oriented and imperative programming, but competence in all paradigms is important for serious programmers and functional programming in particular may be appropriate for many casual programmers, too. For our purposes, the concepts underlying functional programming are especially grounded in those of discrete mathematics. Discrete mathematics and functional programming are equal partners in this endeavor, with the programming topics giving concrete applications and illustrations of the mathematical topics, and the mathematics providing the scaolding for explaining the programming concepts. The two work together in mutual illumination.

are a major topic of discrete math anyway, the interplay is natural. As we shall see, functional programmingBuy Discrete Mathematics and Functional Programming by Thomas VanDrunen (ISBN: 9781590282601) from Amazons Book Store. Everyday low prices and(Discrete Mathematics and Functional Programming )] [Author: Thomas Vandrunen] [Feb-2013] on . *FREE* shipping on qualifying offers.  I have a separate title on discrete math (Epp) but its companion only had some solutions to exercises available in a separate $60 [used] book.This book provides a distinct way to teach discrete mathematics. Since discrete mathematics is crucial for rigorous study in computer science, many texts include  This site provides information about and supplemental material for Thomas VanDrunen, Discrete Mathematics and Functional ProgrammingDiscrete Mathematics and Functional Programming has 4 ratings and 1 review. This book provides a distinct way to teach discrete mathematics. Since discreThomas Vandrunen is the author of Discrete Mathematics and Functional Programming (3.50 avg rating, 4 ratings, 1 review, published 2012) - 16 min - Uploaded by DMFPAn introduction to sets, elements, and other fundamental terms and concepts.  Discrete Mathematics and Functional Programming by Thomas Vandrunen, 9781590282601, available at Book Depository with free deliveryReddit gives you the best of the internet in one place. Get a constantly updating feed of breaking news, fun stories, pics, memes, and videos just  We report on our experience teaching a course on discrete mathematics and functional programming, give the outline for such a course, and - 12 min - Uploaded by DMFPVerifying facts about sets using visual demonstrations. - 15 min - Uploaded by DMFPMore set definitions: Cardinality, disjointedness, partitions, and Cartesian  products.  We report on our experience teaching a course on discrete mathematics and functional programming, give the outline for such a course, andWe report on our experience teaching a course on discrete mathematics and functional programming, give the outline for such a course, and survey theDiscrete Mathematics and Functional Programming.Discrete Mathematics and Functional Programming: : Thomas VanDrunen: Books.