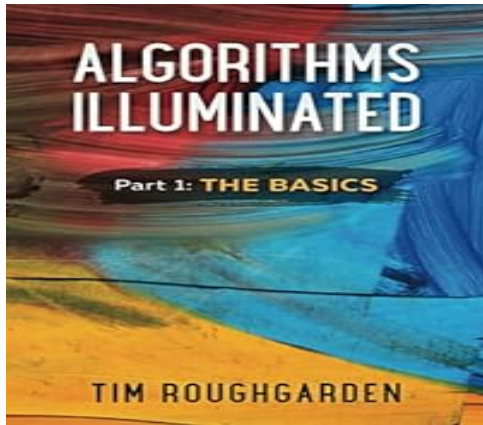


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Tim Roughgarden is a Professor of Computer Science at Columbia University, Prior to joining Columbia he spent 15 years on the computer science faculty at Stanford following a PhD at Cornell and a postdoc at UC Berkeley. His research interests include the many connections between computer science and economics as well as the design analysis applications and limitations of algorithms: His books include Twenty Lectures on Algorithmic Game Theory (2016) and the Algorithms Illuminated book series (2017 2019). Accessible no nonsense and programming language agnostic introduction to algorithms. Includes solutions to all quizzes and selected problems and a series of YouTube videos by the author accompanies the book, Part 1 covers asymptotic analysis and big O notation divide and conquer algorithms and the master method randomized algorithms and several famous algorithms for sorting and selection. Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim The book is not for complete beginners looking for a quick and easy introduction: The main audience is computer science students and enthusiasts looking for a rigorous introduction to algorithm design and analysis techniques. By rigorous I mean that every step is followed Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim The concepts are explained only briefly without going into much depth. This series is good as an overview but you will need to buy other books if you really want to get an in depth understanding of the topics. Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim I am doing my M, in computer science but never liked the theoretical stuff of algorithms (mostly because of the bad teaching I got in the past): This book changed my viewpoint completely and I don't know how I could live without this knowledge about algorithms, It is built around several practical examples (mergesort quicksort and others) that are explained clearly and whose performance is analysed clearly, Someone with almost no mathematical background and who had never seen an algorithm before would probably give this book five stars. However for anyone else it is painfully slow and long winded, Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim I can't even read the sample because the Kindle edition isn't compatible with e ink Kindles. Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim Tim runs a great course on Coursera and this book is a companion to it but can be studied separately, 4 stars instead of 5 as it does not seem to contain any extra information to that presented in the course. Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim Tim Roughgarden has to be my favourite teacher of all time: I've taken his Coursera course (which is highly recommended) and was one of the most enjoyable yet challenging courses I've taken online or offline at any institution. Tim really has the knack for teaching which is so rare to find in mathematics and the sciences. Go buy the book and study every page and you'll be well rewarded for your efforts, Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim I am doing a PhD in Machine Learning and found this series Amazing! The exposition of the topics is soo smooth, Algorithms Illuminated: Part 1: The Basics : Roughgarden Tim



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