# Lectures On Generating Functions (Student Mathematical Library, V. 23)

## Synopsis

This book introduces readers to the language of generating functions, which nowadays, is the main language of enumerative combinatorics. The book starts with definitions, simple properties, and numerous examples of generating functions. It then discusses topics such as formal grammars, generating functions in several variables, partitions and decompositions, and the exclusion-inclusion principle. In the final chapter, the author describes applications to enumeration of trees, plane graphs, and graphs embedded in two-dimensional surfaces. Throughout the book, the author motivates readers by giving interesting examples rather than general theories. It contains numerous exercises to help students master the material.

## Book Information

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## Customer Reviews

I used a version of this book as lecture notes when I took Lando's class on combinatorics a couple years ago. The material is incredibly interesting and very well presented--and not too complicated! Highly recommended.


It's ok. Not a great book but has what it is necessary. I would recommend to look for other options.

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