

Preface

The main goal of the book is to inspire the readers and develop their intuition about syzygies and Hilbert functions. Research on free resolutions and Hilbert functions is a core and beautiful area in Commutative Algebra.

Many examples are given in order to illustrate and develop ideas and key concepts.

The book contains open problems and conjectures. They provide a glimpse on some exciting directions in which commutative algebraists are working. We present three types of problems: Conjectures, Problems, and Open-Ended Problems. The Open-Ended problems do not describe specific problems but point to interesting directions for exploration.

I want to thank Jeff Mermin for his helpful suggestions. My work is partially supported by NSF.

September, 2010

Irena Peeva



<http://www.springer.com/978-0-85729-176-9>

Graded Syzygies

Peeva, I.

2011, XII, 304 p., Hardcover

ISBN: 978-0-85729-176-9