

Preface

Around 1980, Karl Hinderer started the book project *Dynamic Optimization*.

From then until 2003, he collected almost all scientific results in the area of dynamic programming, including applications. During those years, he presented several courses on this topic at the Karlsruher Institut für Technologie (KIT). Earlier versions of most parts of the book have also been tested by Dieter Kadelka, Alfred Müller, and Ulrich Rieder and particularly by Michael Stieglitz who worked intensively with Karl Hinderer in his later years. On April 17, 2010, Karl Hinderer died.

In the last four years, we have revised some versions of the book and put them together in the present volume. We believe that this textbook offers some advantages over other books. The most interesting aspects are the following:

- A detailed introduction of deterministic models.
- A firm theoretical basis without advanced measure theory.
- Precise modeling of a variety of applications in different areas.
- A large number of examples and exercises.

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