

## **Part II**

# **Anatomy and Function of the Nonlinear Cochlea**

The second part of the book starts with a report of the experimental and theoretical developments around 1980. It focuses on nonlinear phenomena, in particular on oto-acoustic emissions. The interest in CT generation, and even more so in two-tone inhibition or suppression, greatly diminished, although CTs interest soon came back through DPOAEs.

The second chapter presents the core of this book: it proposes and develops a time-domain model of the cochlea that can deal with the nonlinear problems as elementary parts of an intact cochlea. The setup provides a working, and still expandable, framework. Some of the first tests are mentioned in this part. Further evaluation is postponed to Part III.