Part 2

Lossless compression

4.	Symmetry and conservation	64
5.	Proportional reasoning	81
6.	Dimensions	96

The first part discussed methods for organizing and therefore for managing complexity. The remaining two parts discuss how to *discard complexity*. The discarded complexity can be actual complexity (**Part 3**) or it can be only apparent complexity – whereupon discarding it does not discard information. Such lossless compression is the subject of this part.

The three methods are symmetry and conservation, proportional reasoning, and dimensional analysis. Proportional reasoning and dimensional analysis are, additionally, examples of symmetry reasoning. Therefore, the next chapter introduces symmetry and conservation reasoning.