## **Table of Contents**

| _  |    |    | 1            |
|----|----|----|--------------|
| F٥ | re | WO | $\mathbf{r}$ |

Translator's Preface for the Japanese Edition

**Table of Contents** 

| 1.         | Introduction and Background   | 1   |  |  |
|------------|---|---|--|--|
|            | Historical background and the intention of this book, Structure of this book,   |   |  |  |
|            | Structural change from classical Matrix to the new Matrix, Structural change (1) Expanded list of parameters, (2) Parameter sequence altera |   |  |  |
|            |   |   |  |  |
|            |   | (5) Principle combination strategies, On the description items in this book |  |  |
| 2.         | Data Acquisition Methods  |   |  |  |
|            | Overall strategy for the up-to-date patent analysis,  |   |  |  |
|            | How to extract data related to the Contradictions in the patent analysis,   |   |  |  |
|            | Considerations to record the patent information on the Contradiction Matrix   |   |  |  |
| 3.         | Physical Contradiction Resolution Strategies  | 9   |  |  |
| 4.         | Contradiction Matrix 2003 Edition: Details of Information   | 11  |  |  |
|            | Description of the items,   |   |  |  |
|            | List of the Parameters and the Inventive Principles to be considered,   |   |  |  |
|            | Parameter we want to improve: 1. Weight of moving object,   |   |  |  |
|            | 2. Weight of stationary object,   |   |  |  |
|            | See the List of the Parameters in page 12-14  |   |  |  |
| <b>5</b> . | Combination of Inventive Principles and Resolution Strategies   | 63  |  |  |
|            | Principle combinations and special principles,  |   |  |  |
|            | Connection-based principle combination strategies, Summary  |   |  |  |
| 6.         | Updated Inventive Principles Listings   | 69  |  |  |
|            | 40 Inventive Principles, 37 Most important combined and special principles,   |   |  |  |
|            | List of Inventive Principles (extended version)   |   |  |  |
| 7.         | If A Solution Has Not Been Found  | 83  |  |  |
| 8.         | Into The Future   | 8t  |  |  |
|            |   |   |  |  |
| Rei        | ferences  | 88  |  |  |
| Au         | thors' Profiles and Figures   |   |  |  |

Appendix A. Summary Sheet of the Updated Contradiction Matrix (Matrix 2003)