



## Mathematical Modeling: Case Studies II

by Tony Hürlimann , 2022, 3<sup>rd</sup> Ed., 288 pages

Hardcover book (english) to buy at [Lulu.com](https://www.lulu.com)

eBook (PDF) (english) at [MatMod Shop](https://www.matmodshop.com)

An Excerpt: [Single Round Robin Tournament](#)

This second book is a comprehensive guide to mathematical modeling. It uses classical models from the operations research as "case studies" and represents them as mathematical models. The models are coded in the computer language **LPL** and most can be solved directly over the Internet.

The book contains many modeling tricks and teachers in Mathematics on high school will be amazed how playful and diverting mathematical modeling can be. The book can also be used for an introduction course in operations research at university level.

The goal is to encourage the use of computer tools in an educational context in order to improve and develop mathematical modelling skills. It can be used as a self-study or in classes.

### About the author:

Tony Hürlimann teaches Computer Science and Operations Research at the Department of Informatics at the University of Fribourg (Switzerland). He developed the computer and mathematical modeling language **LPL** that allows the user to specify and solve complex and large mathematical model.

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## **Technical Information**

The book is self-contained. However, if you like to run and solve the models or variants exposed in the book then the LPL software is available – free of charge for one month.

You can also run the models directly from the Internet. A link is noted at the head of each model that can be opened (for the hard copy book, instructions are given in the preface).