



Transport Modelling for a Complete Beginner

By Yaron Hollander

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Transport Modelling for a Complete Beginner By Yaron Hollander

Finally! A book about transport modelling which doesn't require any previous knowledge. "Transport modelling for a complete beginner" explains the basics of transport modelling in a simple language, with lots of silly drawings, and without using any mathematics. This book is aimed at transport planners, town planners, students in transport-related courses, policy advisors, economists, project managers, property developers, investors, politicians, journalists, and anyone else who wants to understand the process of making decisions on transport infrastructure. It is suitable for readers in any country. The book is split into two parts. The first part is about the principles of transport modelling. This part talks about travel demand, transport networks, zones, trip matrices, the value of time, trip generation, mode split, destination choice, model calibration – lots of scary words that need explaining in order to understand the role of models in the assessment of transport projects. All modes of transport are covered: cars, buses, trains, trucks, taxis, walking, cycling and others. Hot air balloons may be the only transport mode that is hardly mentioned. The second part of the book covers more strategic issues. It talks about the culture of transport modelling, including the management of transport modelling work, the way model outputs are communicated, and the professional environment where this is done. This part of the book also contains an honest discussion of common modelling practices which should be recommended and others which should not. "Transport modelling for a complete beginner" will help you ensure that anything you do with a transport model remains fair, effective and based on real evidence.

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Transport Modelling for a Complete Beginner By Yaron Hollander Bibliography

- Rank: #2377520 in Books
- Published on: 2016-12-04
- Original language: English
- Dimensions: 9.00" h x .75" w x 6.00" l,
- Binding: Paperback
- 316 pages

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Editorial Review

Review

"This important book should be read by most modelling practitioners and academics... It may even justify re-writing sections of other books... Yaron has managed to explain some of the most advanced concepts in transport modelling in a down-to-earth manner, without using a single mathematical equation." - Luis Willumsen, co-author of "Modelling Transport".

About the Author

Yaron Hollander develops software and data solutions to support policy and investment decisions. Until 2015, Yaron led the team that creates such solutions at Transport for London. He now works as a data and software consultant across different sectors, including transport, property, health and digital.

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