

Calibration of Trip Generation, Distribution and Modal Split Models

One-day Course, October 9, 2007, Toronto, Ontario, Canada

COURSE LEVEL

This is a condensed course that is designed for the intermediate level of practitioners in transportation planning/ modelling (sequential four-stage model).

COURSE CONTENTS

- The Transportation Model
- Calibration of Trip Generation Models; Multiple Regression Analysis, Category Analysis, and Multiple Classification Models.
- Calibration of Trip Distribution Models; Gravity Models, three-dimensional Furness Method
- Calibration of Modal Split Models; Logit Models.

WHO SHOULD ATTEND?

- Transportation planners, economists, engineers and analysts at the introductory/ intermediate level in transportation modelling who wish to gain a better understanding of the calibration of transportation planning models.

FEE

- \$CDN 395 or \$US 360.

TEXT

- Detailed course notes entitled "Analytical Transportation Planning" will be provided (700 pages) with a chapter on Toll Roads, plus a diskette with solved examples as well as beneficial macros.

BENEFITS

You will benefit from understanding:

- What types of models are available to you to use in trip generation, trip distribution, modal split?
- What is the Least Squares Theory?
- What is the meaning of "Entropy" and how can it be used to generate a family of distribution models?
- What is "Utility" in the context of transportation planning?
- What is Maximum Likelihood?
- How can we interpret the results of a multiple regression equation?
- What is the difference between LOGIT and PROBIT models?

You will also benefit from getting free copies of software (LOTUS macros/ worksheets) written by the instructor to:

- Do Furness biproportional balancing.
- Calculate turning movements at intersections from traffic counts
- Solve the main examples on modelling in the course notes.

INSTRUCTOR

Dr. A. Mekky, P.Eng. earned his Ph.D. in Transportation Planning in 1977. He is a Senior Planner and Adjunct Professor (Ryerson University) with a wide teaching experience, having instructed undergraduate and post-graduate students in Traffic and Transportation Engineering and Planning in Canada, USA, Europe & the Middle East.

Dr. Mekky has extensive experience in developing various kinds of mathematical and Monte Carlo planning models. He worked in municipal and provincial governments as well as in the private sector in developed and developing countries for more than 30 years. He is a member of the Association of Professional Engineers of Ontario and a Fellow of the ITE (Institute of Transportation Engineers).

REGISTRATION

(Visit web site: <http://www3.sympatico.ca/amekky/>)

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