

Preface and Acknowledgments

This syllabus serves as an introduction to the field of traffic engineering to professionals who are being assigned traffic engineering tasks for the first time and as a source of recent information for those already in the field. It is designed mainly for one-week short courses, but past editions have also seen increasing use in university engineering courses and for individual study.

Traffic engineering is an ever-changing profession. New standards, guidelines, and basic texts rapidly replace older reference volumes. This 16th edition again includes new and revised material needed by students and practicing engineers. We have recognized the growing interest in non-motorized transportation modes by adding a new chapter on Bicycle Characteristics and Facilities and vastly expanding the chapter on Pedestrian Mobility and have also added a chapter on Work Zone Traffic Control. We have invited guest contributors to write these chapters and others to revise other material. On the other hand we have deleted the chapter on Mass Transit Systems, retaining a few items of specific concern to the traffic engineer elsewhere in the syllabus.

Even so, these notes cannot cover all the material required for even a basic understanding of traffic engineering; the student will also need access to the latest editions of such standard references as ITE's *Traffic Engineering Handbook* and the companion *Transportation Planning Handbook*, FHWA's *Manual on Uniform Traffic Control Devices*, TRB's *Highway Capacity Manual*, ITE's *Manual of Transportation Engineering Studies*, and AASHTO's *Policy on Geometric Design of Highways and Streets*. Many of the references listed at the end of each chapter also offer more detailed information.

We again use the International System of Units (metric system). See page vi.

We wish to thank the guest authors listed on the preceding page who have made valuable contributions: Michelle deRobertis for creating Chapter 21, Loretta Hall for the Appendix on Technical Communications (plus her editorial work to convert endnotes into reference lists), John Logan for writing Chapter 26, Matthew Ridgway for revising and expanding Chapter 20, and Vernon Waight for updating Chapter 28. We are also grateful to Diana Gould Wells for her valuable contribution to Chapters 29 and 30. Thanks are also expressed to Michael Ereti, Michael Hendrix, and Jason Simmers, all of Tucson, for providing draft materials.

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