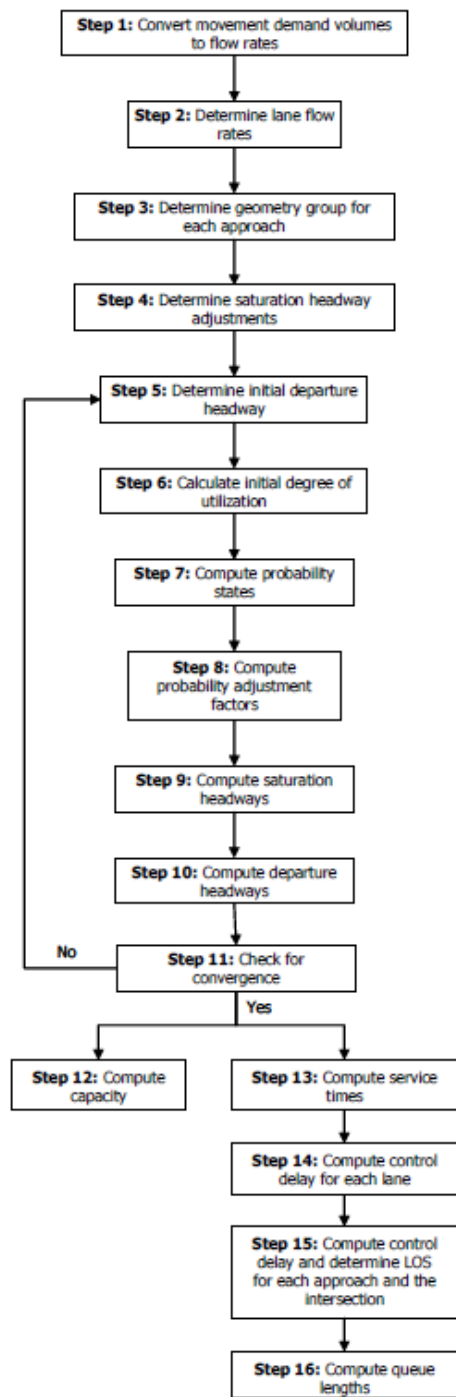


CE 572 – Spring 2015
Class 24

2015.03.23

10	<p>Class 24 (3.23)</p> <p>Applications and analysis</p> <p>Exam review</p> <p>Introduction to HCS</p> <p>AWSC intersection module</p>	<p>Class 25 (3.25)</p> <p>Applications and analysis</p> <p>AWSC intersection module</p>	<p>Class 26 (3.27)</p> <p>Applications and analysis</p> <p>TWSC intersection module</p>
11	<p>Class 27 (3.30)</p> <p>Applications and analysis</p> <p>TWSC intersection module</p>	<p>Class 28 (4.01)</p> <p>Applications and analysis</p> <p>Signalized intersection module</p>	<p>Class 29 (4.03)</p> <p>Applications and analysis</p> <p>Signalized intersection module</p>
12	<p>Class 30 (4.06)</p> <p>Applications and analysis</p> <p>Signalized intersection module</p>	<p>Class 31 (4.08)</p> <p>Applications and analysis</p> <p>Signalized intersection module</p>	<p>Class 32 (4.10)</p> <p>Applications and analysis</p> <p>Intersection control decisions</p>
13	<p>Class 33 (4.13)</p> <p>Applications and analysis</p> <p>Intersection control decisions</p>	<p>Class 34 (4.15)</p> <p>Applications and analysis</p> <p>Intersection control decisions</p> <p>Exam preparation</p>	<p>Class 35 (4.17)</p> <p>Exam #2</p>
14	<p>Class 36 (4.20)</p> <p>HCM Applications Guide</p>	<p>Class 37 (4.22)</p> <p>HCM Applications Guide</p>	<p>Class 38 (4.24)</p> <p>HCM Applications Guide</p>
15	<p>Class 39 (4.27)</p> <p>HCM Applications Guide</p>	<p>Class 40 (4.29)</p> <p>HCM Applications Guide</p>	<p>Class 41 (5.01)</p> <p>HCM Applications Guide</p>
16	<p>Class 42 (5.04)</p> <p>HCM Applications Guide</p>	<p>Class 43 (5.06)</p> <p>HCM Applications Guide</p>	<p>Class 44 (5.08)</p> <p>HCM Applications Guide</p>



Parametric Analysis:

An analysis taken to describe, analyze and examine the different relations amongst various parameters

Sensitivity Analysis:

The study of how the uncertainty in the output of a mathematical model or system (numerical or otherwise) can be apportioned to different sources of uncertainty in its inputs.

Assignment 31 - HCS and AWSC Intersection Analysis

1. Review pages 21.10 - 21.19 in HCM 2010. This section covers the basic AWSC intersection methodology for automobiles.
 2. Use the HCS to verify the results for Example Problem #1 (pp 32.56 - 32.61). Prepare an interpretation of the results: what is the meaning of the results for a traffic engineer?
 3. Select one output parameter from the HCS analysis and conduct a parametric or sensitivity analysis based on one input parameter. Present your results in a spreadsheet.
-

Assignment 32 - Reading

Read the paper "Saturation Headways at Stop-Controlled Intersections", Transportation Research Record 1457. See Resources page under AWSC Intersections.