

Pavement Computer Assisted Structural Engineering (PCASE)

On-line Design Workshop

Course Outline

Day 1

- Introduction
- Overview and Getting Started
- Tools and Preferences
- Pavement Types, Design Criteria, and Performance Models
- Traffic

Day 2

- Flexible Pavement Design
- Base Courses & Subbases
- Subsurface Drainage
- Subgrades & Compaction
- Unsurfaced
- Mats
- Seasonal Variations
- Review Day 1 Homework

Day 3

- Rigid Pavement Design
- Reinforced Rigid Pavement Design
- Base Course, Subgrade, Effective K
- Stabilized Base
- PCC Overlays
- AC Overlays
- Review Day 2 Homework

Day 4

- PCC/AC Overlays
- Shoulders
- Layered Elastic Design
- Layered Elastic Design with Seasonal Variations
- Review Day 3 Homework
- Design Test