Using Maple to Bridge Between Calculus and "Freshman Engineering"

Douglas B. Meade

Department of Mathematics
University of South Carolina
Columbia, SC 29208

(803) 777-6183
meade@math.sc.edu
http://www.math.sc.edu/~meade/

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Outline

- Introduction
- Detailed Example: Water Quality
- Other Examples

Introduction

- The Problem
  - as seen by Engineers
  - as seen by Mathematicians
- A Solution
  - communicate and cooperate

Other Examples

- Strength and Toughness of Materials
- Lift and Drag
- Bandwidth of an Optical Filter
- Low–Pass Electrical Filter
- Solvents and Solutes

— *Engineer's Toolkit: Maple V for Engineers*,
D.B. Meade and E. Bourkoff,
Addison Wesley Longman, 1998.