

CHAPTER

Reinforced Concrete Design Fifth Edition

 UNIVERSITY OF MARYLAND COLLEGE PARK

# SHEAR IN BEAMS

A. J. Clark School of Engineering - Department of Civil and Environmental Engineering

## Part I – Concrete Design and Analysis

FALL 2002



By  
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**ENCE 355 - Introduction to Structural Design**  
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4a

Prentice Hall

CHAPTER 4a. SHEAR IN BEAMS Slide No. 1

## Introduction

- The previous chapters dealt with the flexural strength of beams.
- Beams must also have an adequate safety margin against other types of failure such as shear, which may be more dangerous than flexural failure.
- The shear forces create additional tensile stresses that must be considered.

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