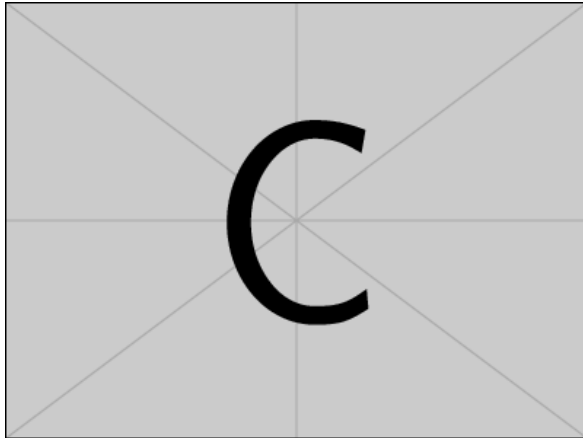


CEE384

## Interpolation

*Interpolation of discrete datasets*



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### Contents

1	Quadratic Splines	1
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## 1 Quadratic Splines

A *quadratic spline* is a set of piecewise quadratic functions which intersect all points in a dataset.

### Pseudocode

1. Define dataset or take dataset as input if programmed as a stand alone function
2. Initialize  $\mathbf{A}$  as a matrix of zeros
3. Loop through number of points and use continuous function information
  - (a) Set values for first equation
4. Loop through number of points and use continuous derivatives information
  - (a) Use interior points

