

Notes in APPM 4650

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November 2, 2015

1 predictor corrector methods

use some method to determine prediction for y_{i+1} at x_{i+1} . Then go back and fix it.

start with euler's improved method.

typically predict with adams-bashford

correct with adam's m

Akwardly enough, you don't have enough points at the beginning.

Could use RK4 for a few small points, to get what's known as seed values.

Taylor series expansion is also an options.

now think about real problems and that units always have to match.

look at what is called the early solution.