A Strategy for Engineering Problem Solving
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TKK is where the learning happens!!

identify technique to solve problem

List your knowns and unknowns

apply technique to problem with known answer (class or book example, trivial situation)

answer correct?

no NO

rethink your technique (consult class notes, course book, other books, instructor)

yes YES

apply technique to problem with unknown answer (homework, project, etc.)

come up with sanity checks (units, spot checks, extremes, intuition)

answer reasonable?

no NO

determine difference between test and actual problems

yes YES

done

THIS is where you demonstrate what you have learned: HW, exams, projects, etc.