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Assignments files. TOPICS
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Solutions to Problem Set 1
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1.4 Why write a Problem
Set well? Mechanical
Engineering Faculty expect
students to communicate
clearly and effectively in
their ability to identify,
formulate, and solve
engineering problems. (ME
Undergraduate Educational
Objectives)1 "The
problem set is the most
ubiquitous form of writing
our students do." -
Professor Will Durfee,
Mechanical Engineering
Faculty Member What
students say ... Student
Writing Guide - U of M:

Department of Mechanical
... - and predicting potential
vibration problems and
solutions, which are usually
not obvious in preliminary
engineering designs. If
problems can be predicted,
then designs can be
modified to mitigate
vibration problems before
systems are manufactured.
Vibrations can also be
intentionally introduced
into designs to take
advantage of benefits of
relative mechanical motion
and to resonate systems (e
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