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~~Lecture 16~~

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examples are

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book is of

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concerned with

the vibratory

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freedom systems,

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laying a

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design. This

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brief review of

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of dynamics so
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that terminology

and notation are

consistent and

applies these

principles to

derive

mathematical

models of

dynamic

mechanical

systems. The

methods of

application of

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these principles
are consistent
with popular
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been included in
the text in
order to aid the
student with
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and retention.
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benchmark

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including

important

equations and

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case studies,
and development
of the control

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vibration
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MATLAB appendix
has also been
added to help
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example problems
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the development

of the text

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(specifically

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Mathematica).

This allows

solution of

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provides
training in the
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commonly used in
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students to
experiment with
equations of
vibration by
allowing easy
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solutions. This

also allows

students to make

precision

response plots,

computation of

frequencies,

damping ratios,

and mode shapes.

This encourages

students to

learn vibration

in an

interactive way,

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to solidify the design components of vibration and to integrate nonlinear vibration problems earlier in the text. The text explicitly addresses design by grouping design related topics into a

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single chapter
and using

optimization,

and it connects

the computation

of natural

frequencies and

mode shapes to

the standard

eigenvalue

problem,

providing

efficient and

expert

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computation of
the modal
properties of a
system. In
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text covers
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are typically
not discussed in
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