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safer freight
trains operating
with higher
speed and higher
loads, it is
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methods for
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longer, heavier
trains. This
requires a full
understanding of
the factors that

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detail the
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handling systems
of a number of
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terminals, and
to help design
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approach is also
being extended
into operational
simulations,

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design is
recommended,
then tested by
simulation, then
evaluated for
performance, and

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then revised as

necessary. The

cycle of

testing,

evaluation and

revision is

continued until

a satisfactory

design is

achieved. A

number of major

clients now

consider

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its possibilities
for unified
design planning
to be an
essential first
step before
proceeding into
more detailed
design. These
clients have
recognized that
simulation makes
it possible to

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examine the interdependencies of
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simultaneously
to ensure that
all parts are in
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that this
approach is
superior to the
conventional
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components are

designed

separately, with

little concern

for their impact

on other parts

of the

system" --Page

[2].

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the dynamics of

railway

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vehicles, and
indeed of the
entire vehicle-
track system, is
critical to
ensuring safe
and economical
operation of
modern railways.

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explained. Case

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examples, to

ensure that the
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theory to real

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