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building, for instance, the designer must create a plan that has suitable... 2.

Structural scheme:.

Structural scheme includes the location of columns in the buildings, it is to be worked out

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Structural Steel
Design - Design
& Construction
of Steel ...

Following are
the methods of
structural steel
design: 1.

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the most traditional approach and is still commonly used. It is...

2. Continuous Design of Steel Structure In continuous design, it is assumed that joints are rigid and transfer moment... 3. ...

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of Steel
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design empha
sizes that the
elements of a

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be proportioned
and joined

together in such a way that they will be able to withstand all the loads (load effects) that are likely to act on it during its service life, without excessive

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deformation or

collapse.

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It complies with

the principles

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for the safety
and
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of structures,
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concerned with
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structures.

EN 1993: Design
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BS EN 1993-1

Eurocode 3:

Design of steel
structures

comprises a set
of general rules
in twelve parts
(BS EN 1993-1-1
to BS EN
1993-1-12) for
all types of
steel buildings.

The commonly
used Parts

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include: BS EN

1993-1-1. This

Part provides

most of the

general rules

used in the

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state design
philosophy. It

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Steel is used in
conjunction with

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concrete in composite and combined frame and shear wall construction.

Structural steels are alloys of iron, with carefully controlled amounts of carbon and various other metals such as

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manganese,
chromium,
aluminium,
vanadium,
molybdenum,
neobium and
copper.

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more

specifically,
structural steel
design, is an
area of

structural
engineering used

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to design steel structures. These structures include schools, houses, bridges, commercial centers, tall buildings, warehouses, aircraft, ships and stadiums.

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constructions
for their
seismic design
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configurations
produced by

steel mills such
as wide flanges,
channels,
angles, pipe,
tubes, etc.

Structural
Steel- the
structural
elements that
make up the
frame that are

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supporting the
design loads,
e.g. beams,
columns, braces,
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