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Beam Section |**

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*Design of beam for 24  
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RCD:- Beam design /  
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beam section*

Deflection of Beams ||  
Deflection Limits

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reinforced concrete  
structures (part1)

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*Steel Beam Design -  
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~~Beam Design EC2~~

~~Worked example~~

~~design shear~~

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**Analysis of Doubly  
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Section | Lecture 10  
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According to limit  
state design,  
reinforced concrete  
members have to be  
analyzed with regard  
to three limit states:

Load carrying  
capacity (involves  
safety, stability and  
durability)

Deformation  
(deflection, vibrations,  
and impact) The

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formation of cracks

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Limit state design,  
also known as Load  
And Resistance  
Factor Design, refers  
to a design method  
used in structural  
engineering. A limit  
state is a condition of

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a structure beyond which it no longer fulfills the relevant design criteria. The condition may refer to a degree of loading or other actions on the structure, while the criteria refer to structural integrity, fitness for use, durability or other design requirements. A structure designed

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by LSD is  
proportioned to  
sustain all actions  
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To 0.85 In  
Permissible Stress  
Design The Ultimate  
Limit State Is The  
Theoretical Type Is



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Reinforced Concrete  
Slab

Limit State Design of  
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Authors: B. C.

Punmia, Ashok Kr.

Jain, Ashok Kumar

Jain, Arun Kumar

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...  
The chapter on Limit  
State of Durability for  
Environment has  
been completely  
revised and the new  
provisions of the code  
such as those for  
design for shear in  
reinforced concrete,  
rules for shearing  
main steel in slabs,

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lateral steel in  
columns, and stirrups  
in beams have been  
explained in detail in  
the new edition.

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VARGHESE ...

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standards related to

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concrete structures  
specifies technical  
rules for the design of  
concrete, reinforced  
concrete and  
prestressed concrete  
structures, using the  
limit state design  
philosophy. It was  
approved by the  
European Committee  
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16 April 2004 to enable designers across Europe to practice in any country that adopts the code. Concrete is a very strong and economical material that performs exceedinglyl

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The Design of Reinforced Concrete Structures lecture Notes – DRCS notes pdf book starts with the topics covering Limit State method, Limit state analysis and design of singly reinforced, Limit state analysis and design of section {or shear and torsion, continuous slab Using I S

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Coef?cients, Limit  
state design for  
serviceability for  
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Design of Reinforced  
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(DRCS) Pdf Notes  
The partial safety  
factor (for ultimate  
limit state) for  
concrete is 1.5 and  
that for steel is 1.15.

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The value is higher for concrete as it is expected to have more variability compared to steel.

The partial safety factor (for serviceability limit state) for concrete and that for steel is taken as 1.0.

### 3 Major Design Philosophies: Working

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Stress, Ultimate Load

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Limit State Design

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The design of  
reinforced concrete  
sections for limit state

of collapse in  
bending, is based on  
the following

assumptions : (a)

Plane sections normal  
to the axis remain  
plane after bending. It  
means that the strain  
at any point in the

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Reinforced concrete cross-section is proportional to the distance from the neutral axis.

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Assumptions in limit state of collapse in flexure (Bending)

There are three methods of structural design, i.e. working stress, limit state and ultimate load method of structural design.

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These design methods are used for reinforced concrete as well as steel structure design.

Limit State, Working  
Stress and Ultimate  
Load Method of ...

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state design of reinforced concrete elements was developed out of my class notes, prepared for teaching and training undergraduate students studying Civil engineering and related disciplines, the design of reinforced concrete structures. The book intends to

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