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and checked and hence the designer is always conscious of the deformation of structure.

ii) The hinge location can be fixed arbitrarily by the designer at the appropriate sections having maximum moments in the elastic case. Particularly in case of R.C. structures the member can be made to fail or adequately strong at any section by suitably modifying the reinforcement at that section.

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When U = Ultimate curvature

Y = Curvature at first yield

$L_u$ = Clear span

d = Effective depth of section

| End Restraint | Type of Moment | Beams loaded only by one or more set of mid span | All other Beams |
|---|---|---|---|
| Span with Two End Restrained | Negative Moment | 0.37 | 0.50 |
| | Positive Moment | 0.42 | 0.33 |
| Span with One End Restrained | Negative Moment | 0.56 | 0.75 |
| | Positive Moment | 0.50 | 0.46 |

One of the recent method developped is by A.L.L.Baker.

Baker's method is based on the flexibility method of analysis.

The method is dealt with in detail in subsequent chapters.