

STUDY OF BEAMS RETROFITTED WITH FERROCEMENT JACKETING

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Abstract : Almost all the structures whether or not industrial, business or housing square measure made of RCC. These structures fare nicely beneath traditional circumstances, however within the event of major earthquakes, higher load imposition etc. The structure might suffer permanent injury. This poses a tougher situation for a structural engineer than constructing a replacement building. This can be owing to variety of restraints associated degree already made building offers like non designed construction, wear & tear etc. Rather than tearing apart the structure one will strengthen the deficient structural components of the structure. Due to the advancement in technology with the assistance of non-destructive testing one will simply determine such deficient components. Once known the simplest reply is to retrofit such components. Retrofitting is totally different from repair or rehabilitation. It's primarily a method of strengthening and sweetening of the performance of deficient structural components in an exceedingly structure or of the structure as whole. Retrofitting of deficient buildings may be done by increasing the strength, stiffness and/or plasticity of its specific constituent components or of the complete building. For any building, relying upon the necessity, a mix of the on top of may be selected. Retrofitting of individual members or components is remarked as native retrofitting. An applied scientist isn't very once it involves spoilt for selections retrofitting, he has got to detain mind variety of choices before embarking on the work of retrofitting. The choices on the market embrace fiber bolstered Plastic or GFRP, Carbon Fibre bolstered Plastic or CFRP or Ferrocement. He has got to maintain a balance between aesthetic, handiness, easy operating & particularly economy. Ferrocement jacketing although lacks a trifle within the painterly half however it wins by leaps & bounds altogether alternative issues. The explanation for this can be it's pronto on the market, is straightforward to figure with and isn't even 1 / 4 as expensive as GFRP or CFRP.



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