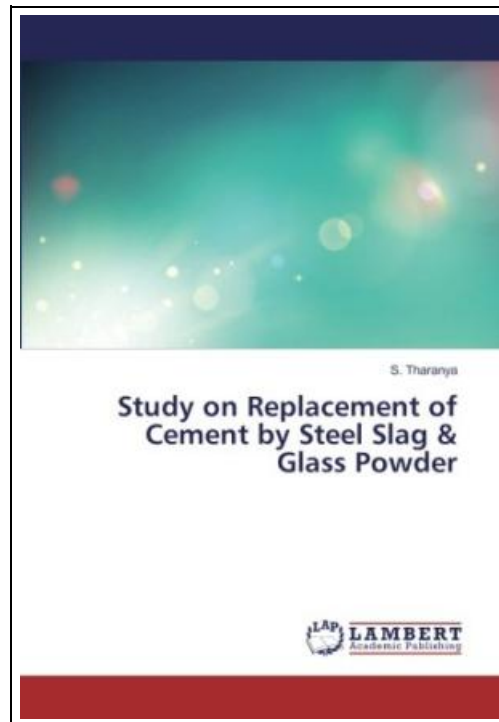


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STUDY ON REPLACEMENT OF CEMENT BY STEEL SLAG & GLASS POWDER

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Steel slag and Glass powder is actually created from waste steel dust which is normally discarded from industrial processes and silica from ground up glass. The potential for Steel slag and Glass powder is as a widely used green, alternative building material that could be made from over 95% recycled material. Steel slag and Glass powder is the viable alternative to cement, which can be mixed and poured to make concrete with strength of concrete. In reality, Steel slag and Glass powder is actually quite a bit stronger than Portland cement, by far the leading type in use today. Steel slag and Glass powder's hardness comes from the fact that as it dries, the material absorbs and irreversibly binds large amounts of atmospheric CO₂. Thus we are casting a Steel slag and Glass powder concrete cube and compare the compressive strength with the normal Concrete cube. Up to 80% - 20% of Steel slag and Glass powder there is optimum percentage in increase of all mechanical properties. Compressive strength of material increases with increasing Steel slag added. Strength enhancement in splitting tensile strength due to replacement of cement by Steel slag and Glass powder is up to 30%. | Format: Paperback | Language/Sprache: english | 52 pp.

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