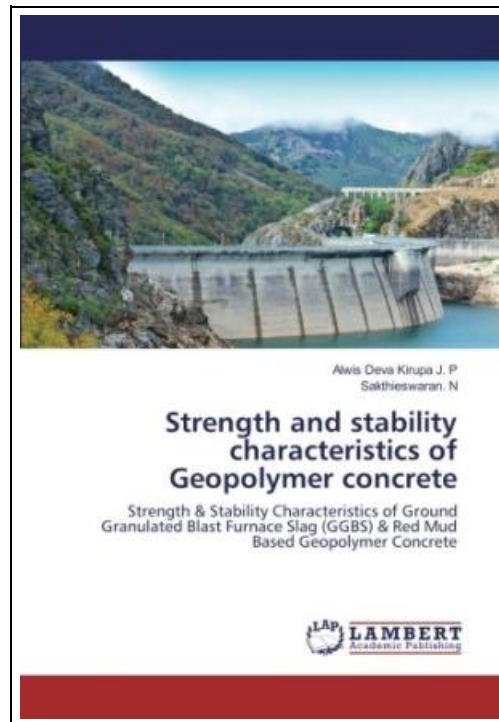


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(Dr. Kristin Dickens)

STRENGTH AND STABILITY CHARACTERISTICS OF GEOPOLYMER CONCRETE



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Strength & Stability Characteristics of Ground Granulated Blast Furnace Slag (GGBS) & Red Mud Based Geopolymer Concrete | Global Warming is a major problem that world faces today. Production of Portland cement is main concern in emission of pollutants. Geo-polymer concrete is a best alternative to OPCC. Geopolymers are chains or networks of mineral molecules linked with co-valent bonds produced by a polymeric reaction of alkaline liquids with Al-Si minerals. METHODOLOGY: Four mixes are made in the ratio Mix A(70%GGBS & 30% RM), Mix B(73%GGBS & 27% RM), Mix C(76%GGBS & 24% RM), Mix D(80%GGBS & 20% RM). Specimens are heat cured for 1day. CONCLUSION: Mix D shows best properties owing to the hybrid fibers and Red Mud reduction. It is seen that, there is about 30% increase in flexural strength when compared to OPCC. Specimens attained their properties at temperature of 40-50oC. Hence sunlight curing is sufficient. GPC exhibited strength gain of 23% when contacted with 5% H2SO4 and 17% with 5% Na2SO4 while OPCC suffered losses. | Format: Paperback | Language/Sprache: english | 109 gr | 220x150x4 mm | 60 pp.



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