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Abstract: The proceedings contain 19 papers. The topics discussed include: stiffness analysis and experimental verification of segment frame of continuous casting machine; characterization of cellulose nanofibers derived from chemical and mechanical treatments; study of strain-softening stage in structurally inhomogeneous materials; two approaches to the problem of high-cycle fatigue of materials and structures; residual stress distribution analysis in advanced materials by neutron diffraction: the case of spherical storage tank butt weld; the research on shear properties of deformable ground soil under high-speed driving conditions; and volume deformation characteristics of concrete mixture during thermal curing process.

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