

Karlsruher PDE-Seminar

Analysis of non-Newtonian fluid flow

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Fluids that are not adequately described by a linear constitutive relation are usually referred to as “non-Newtonian fluids”. In the last 15 years we have seen a significant progress in the mathematical theory of generalized Newtonian fluids, which is an important subclass of non-Newtonian fluids. We present some recent results in the existence theory and in the error analysis for approximate solutions. We will also indicate how these techniques can be generalized to more general constitutive relations.

Termin: Donnerstag, 9. Juni 2011, 17:30 Uhr

Ort: Raum 1C-03, Allianz Building 05.20

Gastgeber: Die Dozenten des Schwerpunktes Partielle Differentialgleichungen