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Review of major shale-dominated detachment and thrust characteristics in the diagenetic zone: Part II, rock mechanics and microscopic scale

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REVIEW OF MAJOR SHALE-DOMINATED DETACHMENT AND THRUST CHARACTERISTICS IN THE DIAGENETIC ZONE: PART II, ROCK MECHANICS AND MICROSCOPIC SCALE

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ABSTRACT

CHARACTERISING LARGE SHALE THRUST ZONE BEHAVIOUR DOWN TO THE DIAGENETIC-METAMORPHIC BOUNDARY IS BOTH SIMPLE AND COMPLEX. THE TASK IN CRITICAL TAPER, ANALOGUE AND NUMERICAL MODELS HAS BEEN SUCCESSFULLY APPROXIMATED USING SIMPLE MATERIAL PARAMETERS. YET THE WEAKNESS OF SHALES THRUSTS ON A CASE-BY-CASE BASIS SHOW GREAT VARIABILITY IN KEY

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