

Physical properties of rocks - fundamentals and principles of petrophysics

Pergamon - Physical Properties of Rocks: Fundamentals and Principles of Petrophysics

Description: -

Rock properties		
Thermal properties	Mechanical properties	Quality control
bulk thermal conductivity [W/mK]	p-wave velocity [m/s]	Q, geophysical uncertainty
water	s-wave velocity [m/s]	Q, porosity
standard deviation	Young's modulus, static	Q, measurement conditions
maximum	[GPa]	Q, quality index
minimum	Young's modulus, static	Q, quality index (near)
intervariogram	bulk modulus, static	Q, quality index (near)
measuring method	[GPa]	Q, remarks on quality
matrix thermal conductivity	Lame's first parameter	measurement conditions
[W/mK]	Lame's second parameter	temperature (H)
volume heat capacity	Cohesion [MPa]	pressure (P)
[J/m³K]	Coefficient of friction (f)	saturated fluid
specific heat capacity	Passive ratio (z)	degree of saturation (%)
[J/m³K]	Uniaxial compressive strength [MPa]	σ_c [MPa]
rock physical properties	friction angle [°]	ϕ_c [MPa]
grain density [kg/m³]	lateral strength [MPa]	cone pressure [MPa]
standard deviation	rock conductivity [S/m]	strain rate [1/s]
maximum	fluid conductivity [S/m]	strain angle [deg]
minimum	transmissivity factor [T]	frequency [Hz]
number of measurements	standard deviation	
maximum	maximum	
minimum	number of measurements	
measuring method	measuring method	
remarks	remarks	
bulk density [kg/m³]	hydraulic conductivity [m/s]	
hydraulic properties	water	
effective porosity (%)	standard deviation	
apparent permeability [m²]	maximum	
interstitial permeability [m²]	minimum	
number of measurements	number of measurements	
maximum	maximum	
minimum	minimum	
hydraulic conductivity [m/s]	remarks	

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In 1991, he moved to the Institute of Applied Geophysics, Joanneum Research, in Leoben, Austria; where, from 2000 to 2004, he was the science manager of the geophysical institute. Schön was educated at Bergakademie Freiberg Mining Institute of Freiberg , Germany, where in 1962 he graduated with a Diploma in geophysics; in 1967 he received his Doctor of Natural Science. We would like to ask you for a moment of your time to fill in a short questionnaire, at the end of your visit.

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