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NOMENCLATURE

Latin letter

\vec{V}	Darcy velocity or filtration velocity (m / s);
P	Averaged magnitude of the pressure (Pa)
T	Averaged magnitude of the temperature (s);
K_f	Thermal conductivity of the fluid medium (W / m.K);
K_s	Thermal conductivity of the solid matrix (w / m.k);
K_{eff}	Effective thermal conductivity (w / m.k);
g	Gravitational acceleration (m / s ²);
F	Empirical factor which depends on the porosity and microstructure of the porous medium(-)

(**X Y Z**) dimensionless coordinate system (-);
 (**U, V, W**) Component dimensionless speed (-);

Greek symbols

ε	Porosity of the porous medium (-);
ρ_0	Referential density (kg / m ³);
ρ_f	Volumetric mass of the fluid (kg / m ³);
μ	Dynamic viscosity of the fluid (kg / ms);
μ_{eff}	Dynamic viscosity of the porous medium (kg / ms);
σ	Report of specific heats of the equivalent medium and fluid (-);
\acute{K}	Thermal conductivity of equivalent medium (-);
η	Thickness dimension without the porous layer (-);
Θ	Dimensionless temperature (-);
ΔT	Variance of temperature (S);
β	Coefficient of thermal volume expansion of the fluid (k ⁻¹).

Indices

<i>eff</i>	Effective
<i>f</i>	Fluid
<i>S</i>	Solid