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NOMENCLATURE

B	magnetic field induction, T
C	specific heat, J. kg^{-1}. K^{-1}
H	magnetic field, A. m^{-1}
k	thermal conductivity, W.m^{-1}. K^{-1}
M	magnetization, A. m^{-1}
Q	energy, J
Q*	power density, W. m^{-3}
p	pressure, Pa
s	entropy, J. kg^{-1}. K^{-1}
T	temperature, K
t	time, s
u	longitudinal fluid velocity, m.s^{-1}
v	orthogonal fluid velocity, m.s^{-1}
W	work, J

Greek symbols

Δ	finite difference
μ	dynamic viscosity, kg. m^{-1}. s^{-1}
ν	cinematic viscosity, m^{+2}. s^{-1}
ρ	density, kg. m^{-3}
τ	time period of the cycle, s

Subscripts

0	minimum
1	maximum
ad	Adiabatic
C	cold heat exchanger
f	fluid
H	hot heat exchanger
P	constant pressure
ref	refrigerant
rej	rejected
s	solid