Magnet-Materialien (Forts.)

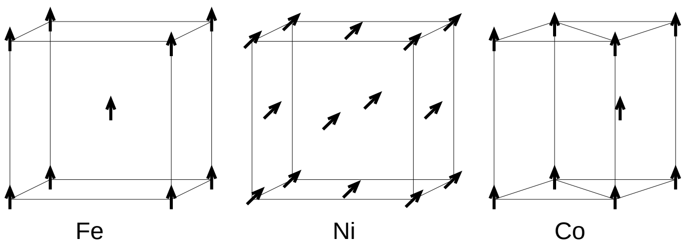
2. Anwendungen

Substanz	μ_r -	B_s [T]	H_c [A/m]	M_R [T]	$B \cdot H$ [TA/m]
$SmCo_5$			760 000	0.95	200 000
$Nd_2Fe_{12}B$			880 000	1.2	360 000
$BaFe_{12}O_{19}$			190 000	0.4	20 000
Fe	5 000	2.14	72		
45-Permalloy (Fe/Ni)	25 000	1.6	20		
B2 Ferroxcube $(Ni, Zn)Fe_2O_4$		0.3			
γ-Fe_2O_3			30 000		
γ-Fe_2O_3 Co-dot.					
CrO_2			110 000		
Fe			75 000-130 000		
Fe/Co (70/30)			90 000-160 000		
Co/Pt/Cr/B					

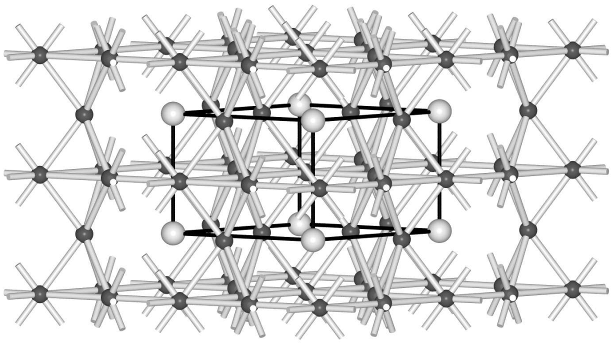
3. Materialien

3.1. Metalle und Legierungen

	$T_{C/N}$[K]	ferro	antiferro
Fe	1043	x	
Ni	631	x	
Co	1404	x	
$Nd_2Fe_{12}B$	583	x	
$SmCo_5$	998	x	
Mn	95		x
Cr	313		x
Eu	90		x
Ho	131/20	x	x



Ferromagnetische Ordnung in einfachen Metallen


Kristallstruktur von $SmCo_5$ ($CaCu_5$-Typ)