FCCSchmidCalc

BCCSchmidCalcソフトウエアの動作

2023年01月10日 *HelperTex Office* 概要

材料の加工性としてSchmidFactorを求めることがあります。

CTRソフトウエアでは、FCC, BCC, HCP向けにSchmid因子計算がサポート されています。

FCCはBCCソフトウエアに含まれています。

以下に操作方法と手計算を説明します。

BCCSchmidCalcソフトウエア

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最大値は

nputData {h k l}<u v w> phi1 PHI phi2 {30 8 95}



最小値は slip2 (111)[-101]である。

手計算

最大値 (1-11)[011] 最小値 (111)[-110] Schmid因子 cosφ*cosθ

$$\cos\phi = \frac{h_1h_2 + k_1k_2 + l_1l_2}{\sqrt{(h_1^2 + k_1^2 + l_1^2)(h_2^2 + k_2^2 + l_2^2)}}$$
$$\cos\theta = \frac{u_1u_2 + v_1v_2 + w_1w_2}{\sqrt{(u_1^2 + v_1^2 + w_1^2)(u_2^2 + v_2^2 + w_2^2)}}$$

最大値(1-11)[011]

(h1,k1,l1)=(1,-1,1) (u1,v1,w1)=(0,1,1) (h2,k2,l2)=(30,8,95) (u2,v2,w2)=(30,8,95)

k1	11	u1	vl	w1
-1	1	0	1	1
k2	12	u2	√2	w2
8	95	30	8	95
0.6759				
0.7305				
0.4937				
	k1 k2 0.6759 0.7305 0.4937	k1 1 -1 1 k2 2 8 95 0.6759 0.7305 0.4937	I1 u1 -1 1 0 k2 I2 u2 8 95 30 0.6759	K1 I1 u1 v1 -1 1 0 1 k2 I2 u2 v2 8 95 30 8 0.6759

最小値 (111)[-110]

(h1,k1,l1)=(1,1,1) (u1,v1,w1)=(-1,0,1) (h2,k2,l2)=(30,8,95) (u2,v2,w2)=(30,8,95)

h1	k1	11	u1	vl	w1
1	1	1	-1	1	0
h2	k2	12	u2	√2	w2
30	8	95	30	8	95
cosΦ	0.7683				
cosθ	-0.1560				
$\cos\phi\cos\theta$	-0.1199				



ODF 解析後方位の決定





この部分をクリック

<mark>₩=</mark> U - 360.000 <mark>Φ=</mark> 0	I+ 90.000 <mark>₩2</mark> = 0+ 90.000
Approx. Miller Indices	Euler Angles
(589)[-521] (958)[1-52] (895)[21-5]	[165.38, 46.35, 32.01] [27.54, 52.15, 60.95] [278.72, 67.45, 41.63]

どの方位も ODF 図上の強い部分であること確認する。

VolumeFrcation決定のため

{589} <-521>をデータベースに登録

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0.50 FYHM ²⁴ = 10.0	45.0 0.50 FWHM	2 = 10.0 45.0 0. БУНМФ БУНМ % Уоlume	50 FWHM 12 = 10.0 45.0 Show Svm. Ea.
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10 { 1 1 0 }< 1 -1 2 > brass	✓ Gauss ✓ 10.0	10.0 10.0 10 😅	 Fit Calculation Progress
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Fix Initial Parameters で {589} <-521>のみを選択し Fix Initial Parameters 再度選択

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数回計算する



BCCSchmidCalc

先ほどのPDFを選択

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{589} <-521>が取り込まれます・

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ItextDisplay File Help mputData (5 8 9)<-5 2 1:	1.14S C:\CTR\wo > 99.95 Factor 5.02.01.0> rota slip1 \$ 0.211 VF% 5.02.01.0> \$ % (SumVF)=0.44	ation (2[0.0],1 slip2 -0.158 Schmid 99.95 VF*Schmidsu (01-1)[111] (-101)[111] (0-1-1)[-1-11] (0-1-1)[-1-11] (01-1)[-1-11] (01-1)[-111] (01-1)[-111] (0-1-1)[-111] (0-1-1)[1-11] (-101)[1-11] (-101)[1-11]	ICC\SchmidFctor. I[0.0],0[0.0]3[0 slip3 0.163 VF*Schmid% 0.449 Im=0.449]	0.0]) slip4 -0.134 0.449	slip5 -0.029	slip6 -0.029	slip7 0.403	slip8 -0.375	slip9 -0.245	Slip1C 0.058