LAMPIRAN 1
DAFTAR GRAFIK

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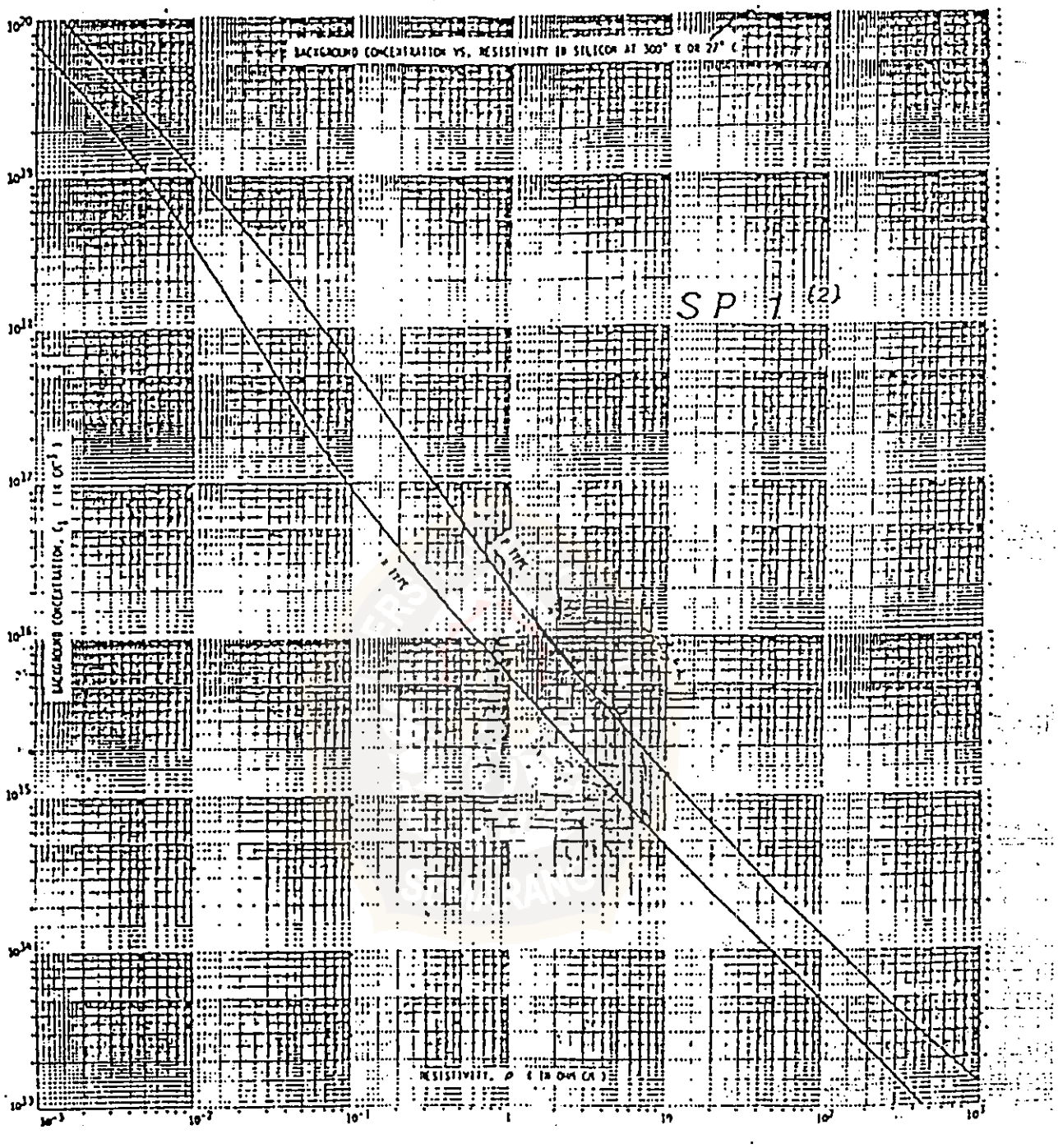

Gambar 1. Konsentrasi epitaksi terhadap resistivitas pada suhu 27 oC (7)

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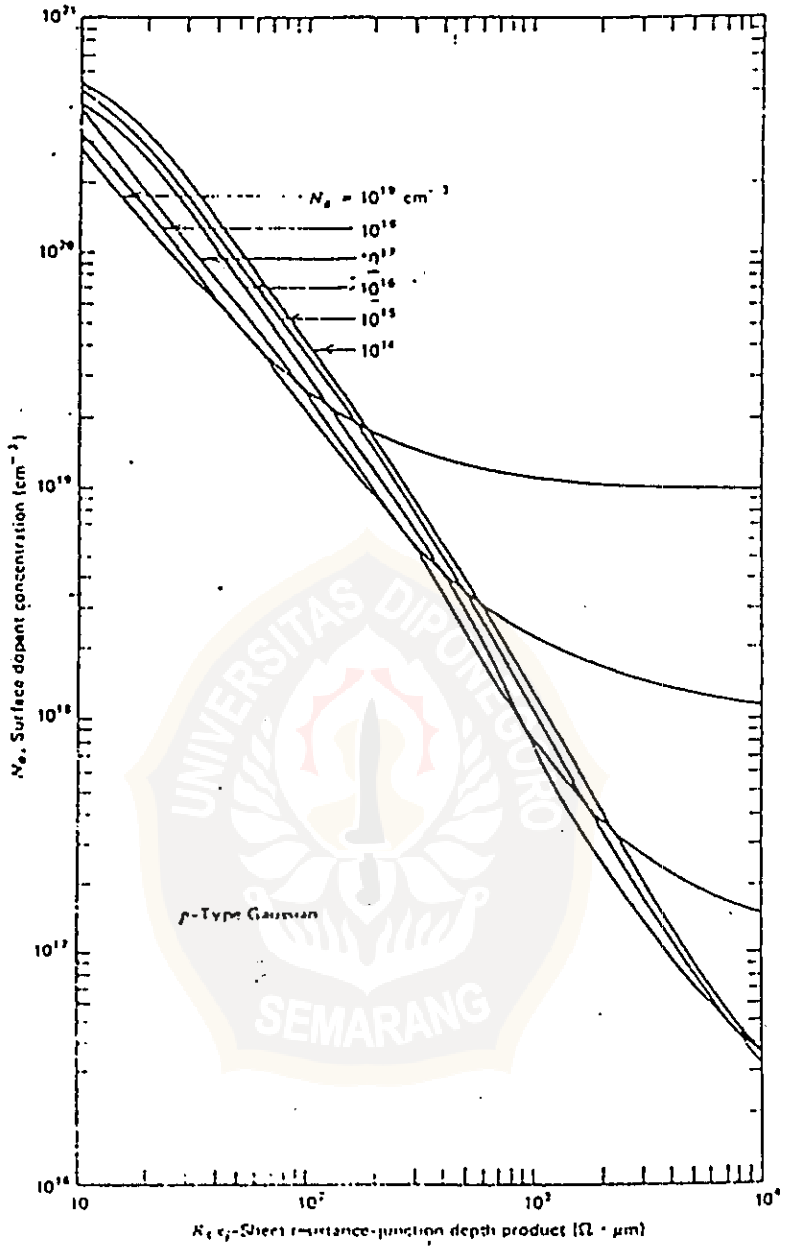

Gambar 2. Konsentrasi ketidakmurnian permukaan untuk difusi Gausian tipe-p fungsi dari resistivitas pada suhu 27 ^{0}C (1).

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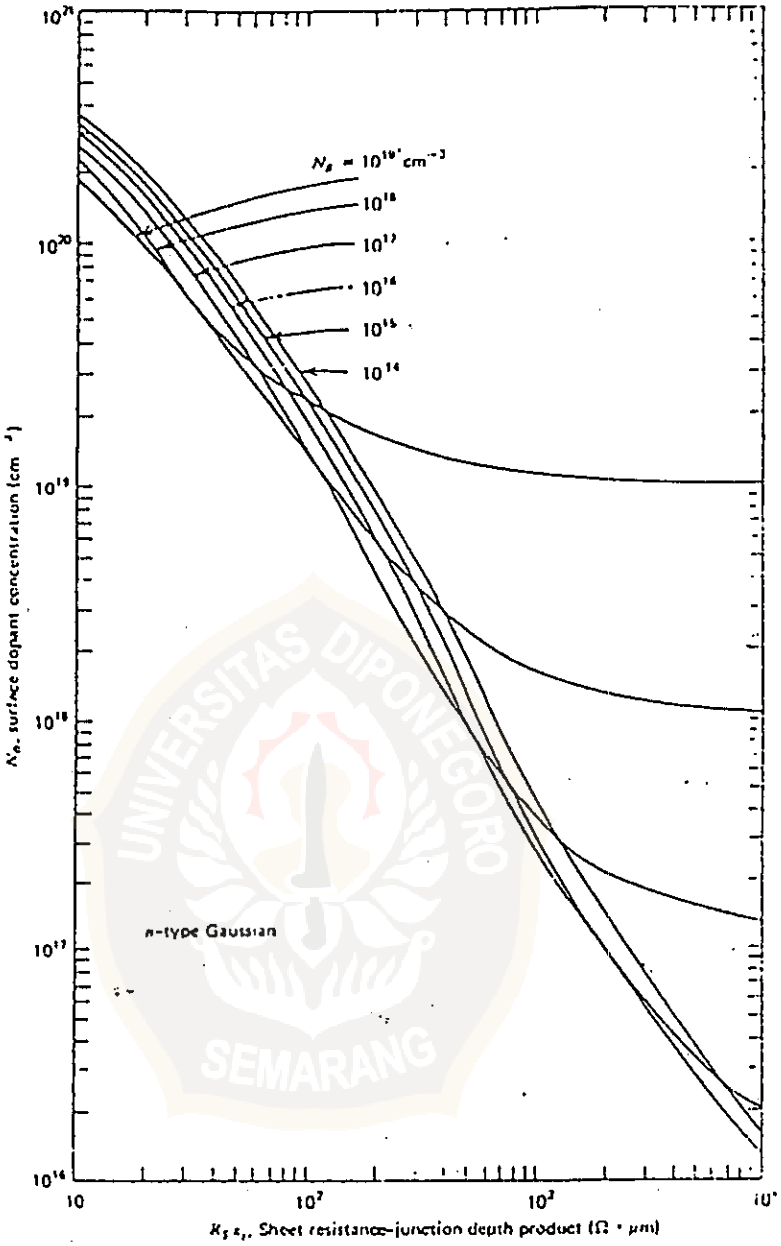

Gambar 3. Konsentrasi ketidakmurnian permukaan untuk difusi Gaussian tipe-n fungsi dari resistivitas pada suhu 27 °C (1)

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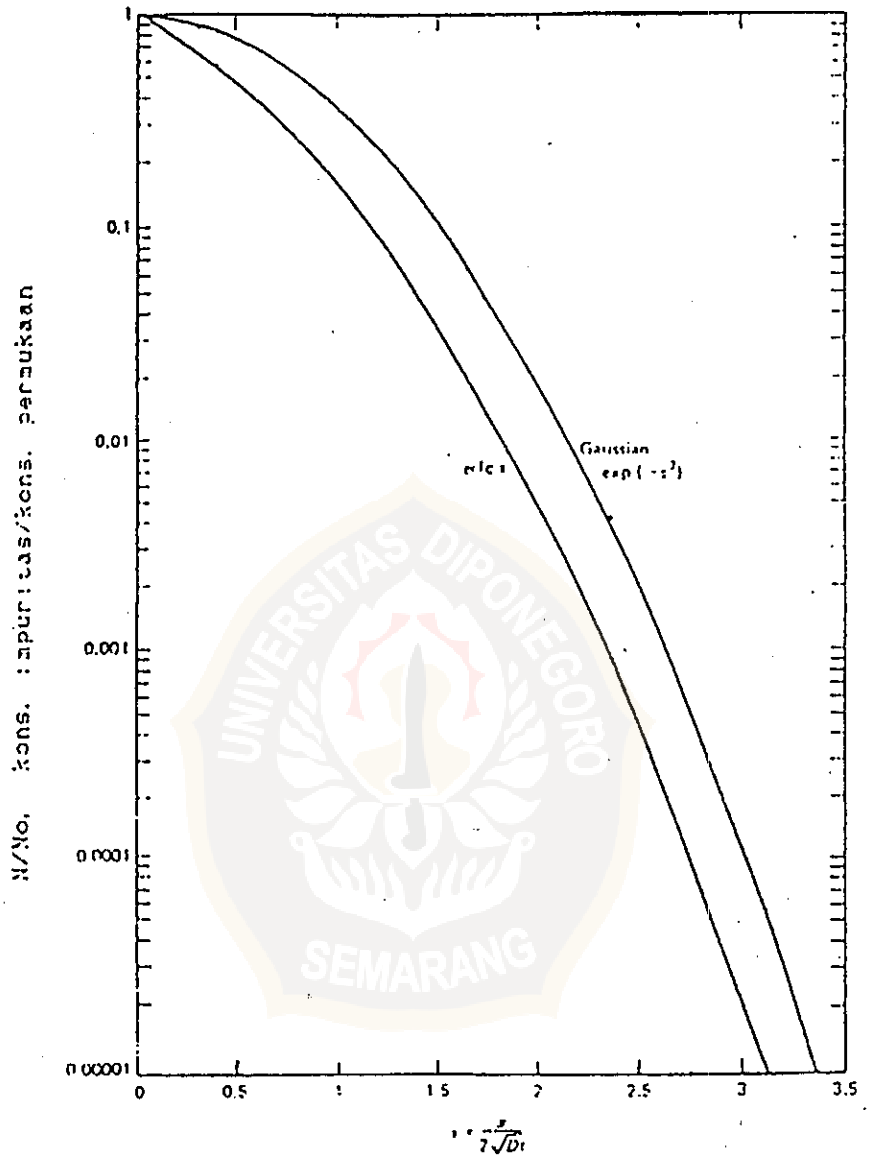

Gambar 4. Distribusi Gaussian dan fungsi komplemetair terhadap konsentrasi permukaan (1)

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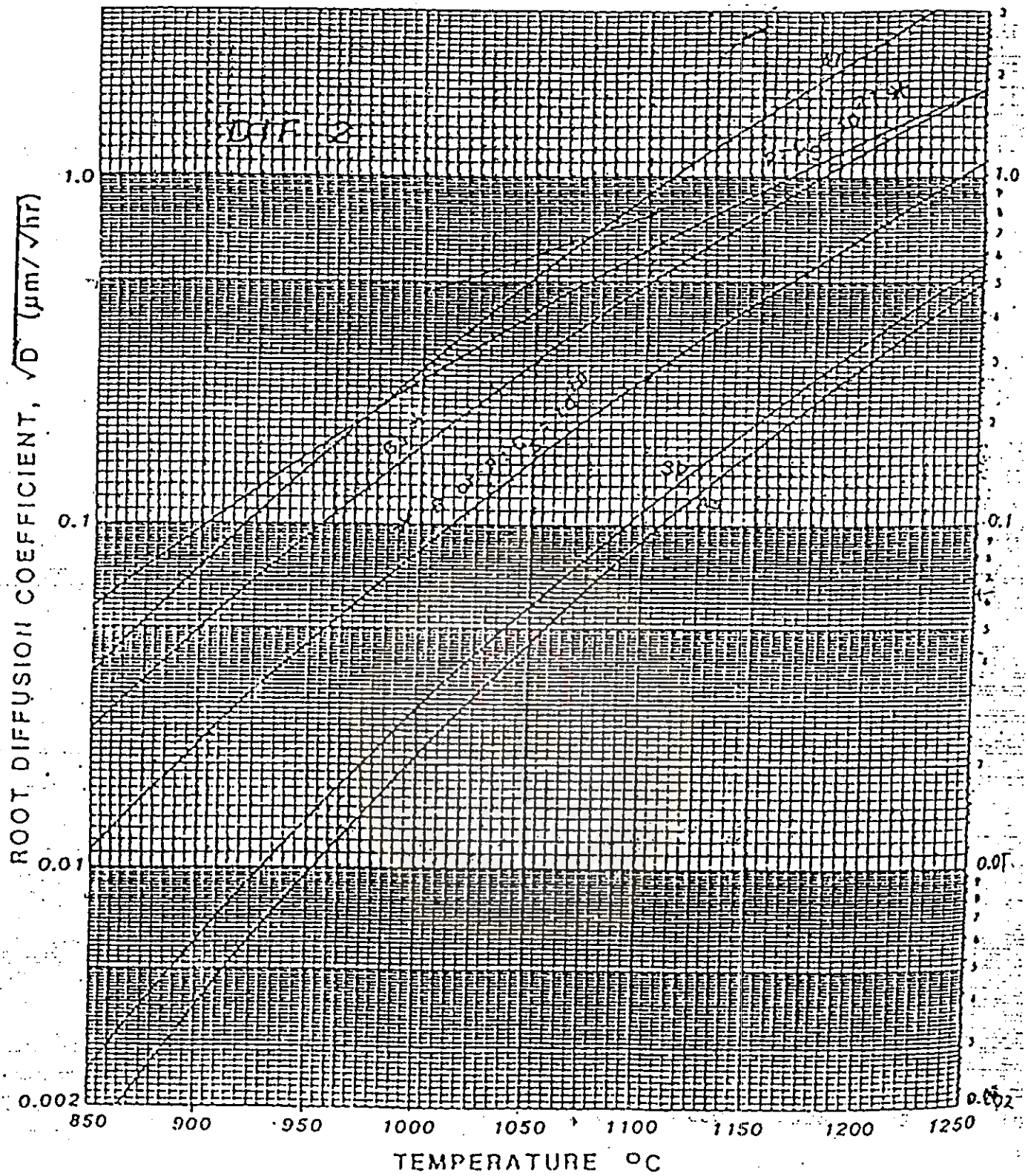

Gambar 5. Koefisien difusi dari beberapa impuritas dalam silikon (7)

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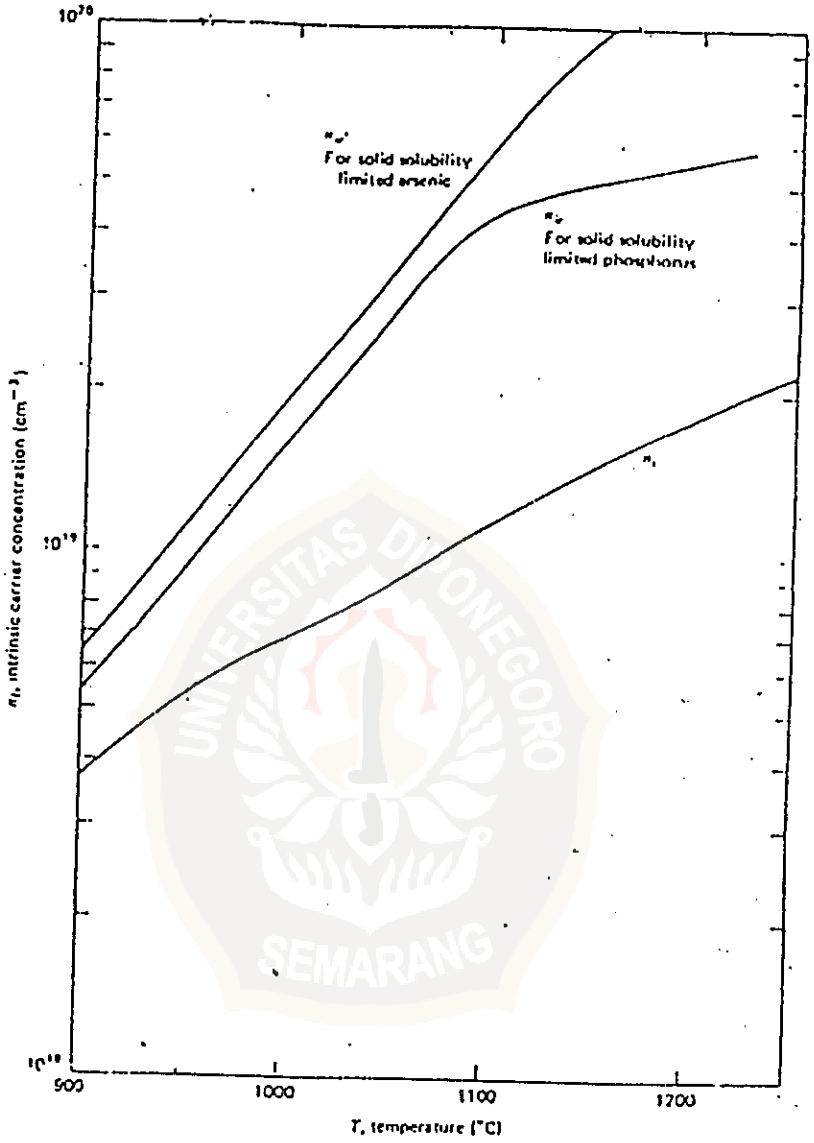

Gambar 6. Konsentrasi pembawa intrisik pada silikon untuk proses difusi (1)

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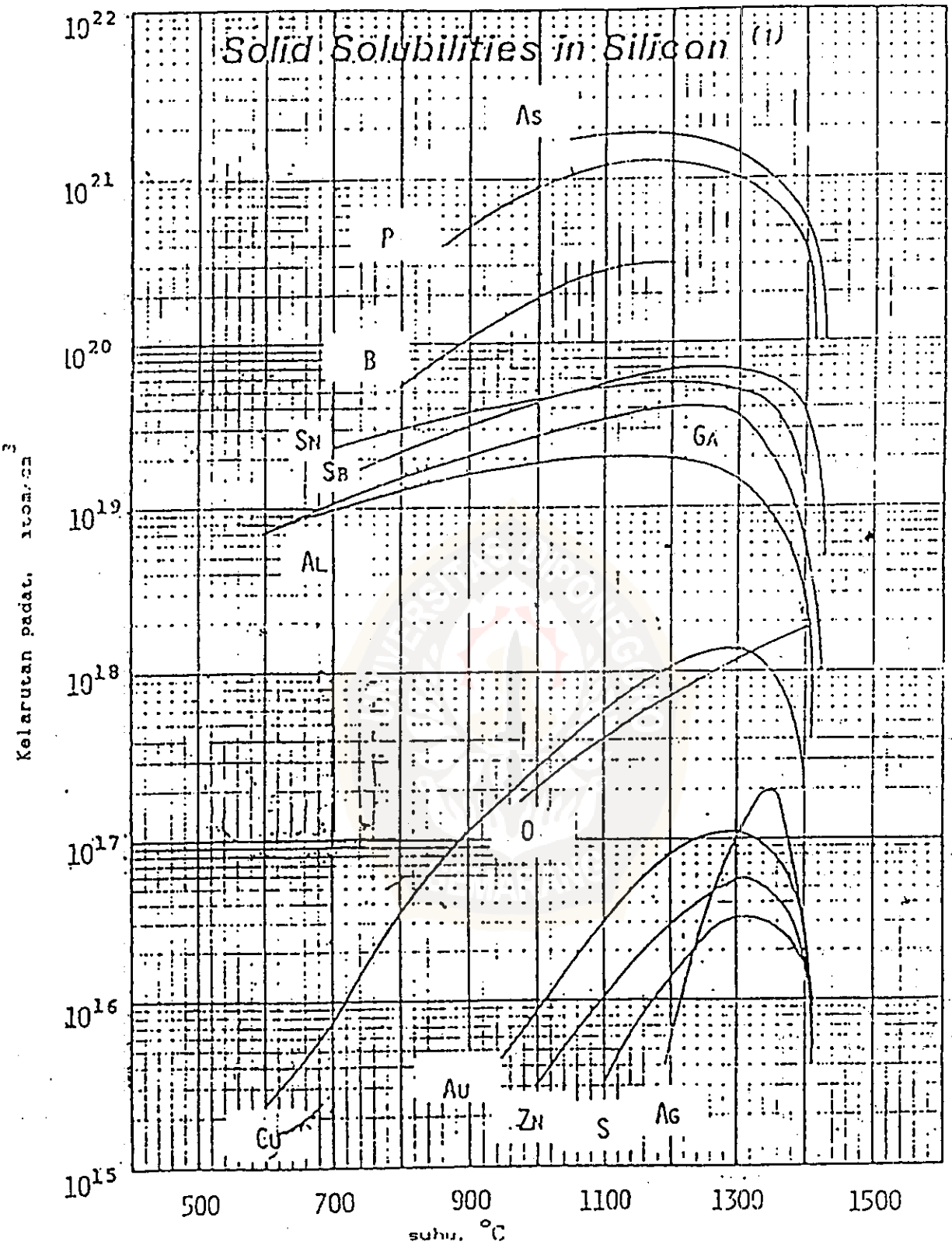

Gambar 7. Kelarutan padat dari berbagai unsur untuk silikon [7]

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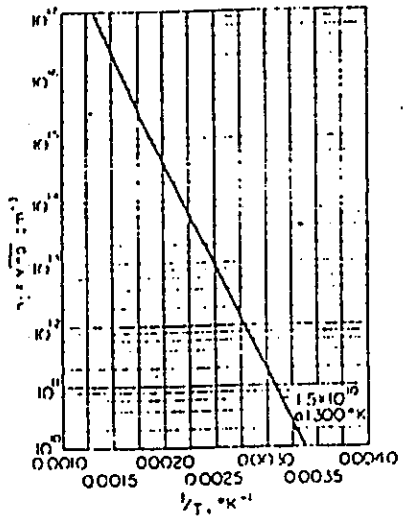
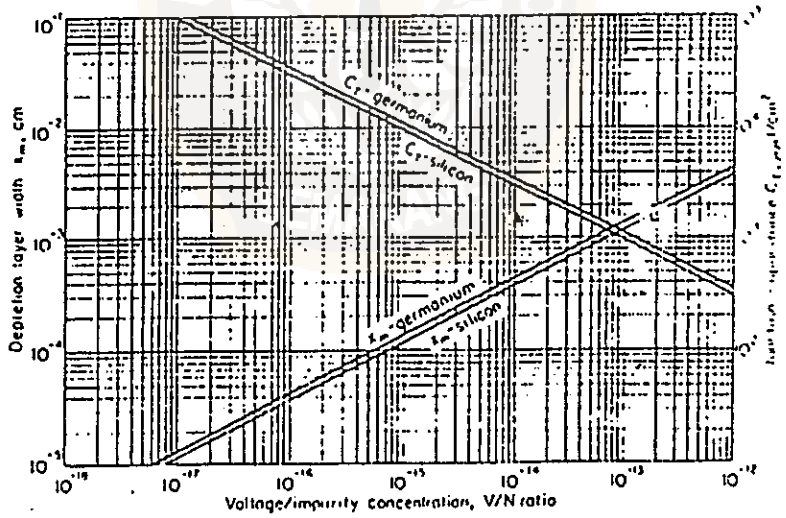


$n_i = 3.87 \times 10^{14} T^{3/2} \ldots$

Gambar 8. Variasi suhu dari pembawa intrisik ni untuk silikon (2)



Gambar 9. Lebar lapisan deplesi dan kapasitansi terhadap tegangan dan konsentrasi ketidakmurnian (2)

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LAMPIRAN 2
DAFTAR TABEL

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Kuantitas	Ro	Ea
α	0,18 cm s^{-1}	1,75 eV
D1	49,3 cm s^{-1}	3,77 eV
D2	2,49 x 10 -5 cm s^{-1}	2,0 eV
N2 (Xo)	·3,95 x 10 23 cm $^{-3}$	0,9 eV

Tabel 1. Kuantitas profil phospor [1]

Charge State		Boron	Phosphorus	Arsenic	Antimony
Neutral	D_0*	0.091	3.85	0.38	0.214
	E_a	3.36	3.66	3.58	3.65
Single negative	D_0	—	4.44	22.9	13
	E_a	—	4.0	4.1	4.0
Double negative	D_0	—	44.2	—	—
	E_a	—	4.37	—	—
Single positive	D_0	166.3	—	—	—
	E_a	4.08	—	—	—

Do dalam cm^2 dan Ea dalam eV

Tabel 2. Do dan Ea Koefisien difusi dan energi aktifasi dari ketidakmurnian untuk silikon [1]

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LAMPIRAN 3
DAFTAR SIMULASI PROGRAM

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