

β- Δf – ,
 (.1). S (. 3/) – (4)
 (Δf) Δf = $\frac{1}{\sqrt{2}}$ (Δf), (4)
 () Δf –
 S = Δf / . (2)
 Δ (/ 3) – $\sqrt{2}$
 , :
 (3)
 Δ = 3Δf / S, (3)
 :

	×10 ³ , / 3	×10 ⁻³ , . 3/
-76	2,2	9,6
-93	1,6	13,3
-95	1,3	16,8

. 1984. 384
 : 3. . .
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 .
 . 2005. . 79, 9. //
 1724.
 4. . .
 .
 « 3 – 4. . 35. » // . 2003.
 : 2084 – 77. 5. . .
 1. – . 1979–01–01. . 2248571 , 7 G 01 N
 : - , 1986. / 33/22. // . 2005. 8, . II. .
 2. 495.

[1]
 :

$$W = \iiint \frac{\varepsilon_0 E^2}{2} dV \quad (1)$$

$$(1) \quad \vec{E} = -\vec{\nabla} \varphi_a, \quad \vec{E} = -\vec{\nabla} \varphi_a$$

$$W_a = q_a \cdot \varphi_a \quad (2)$$

$$\varphi_a = \varphi_a - \frac{q_a}{4\pi\epsilon_0 r_a} \quad (3),$$

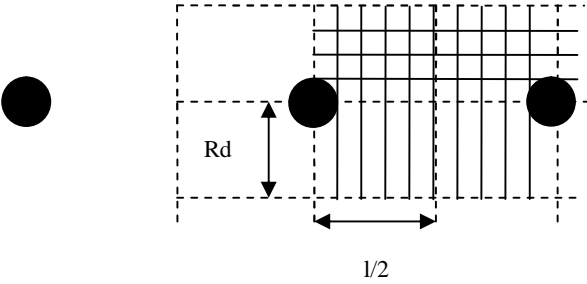
$$\vec{F} = -\nabla W_a \quad (4),$$

$$\vec{f} = \frac{1}{2} \vec{E} \sigma \quad (5),$$

$$\sigma = \epsilon_0 E_n, \quad E_n$$

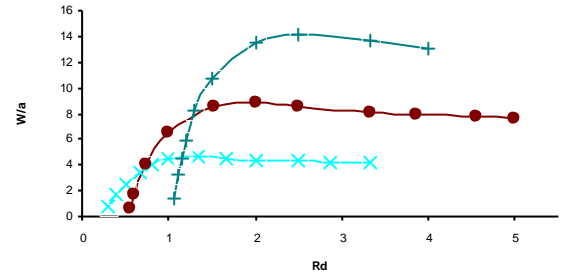
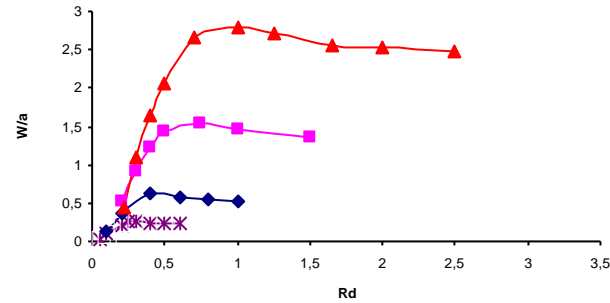
$$E = E_n, \quad (\sim 10^{-6} \text{ V}) \quad [2], [3]$$

$$1/r_d$$

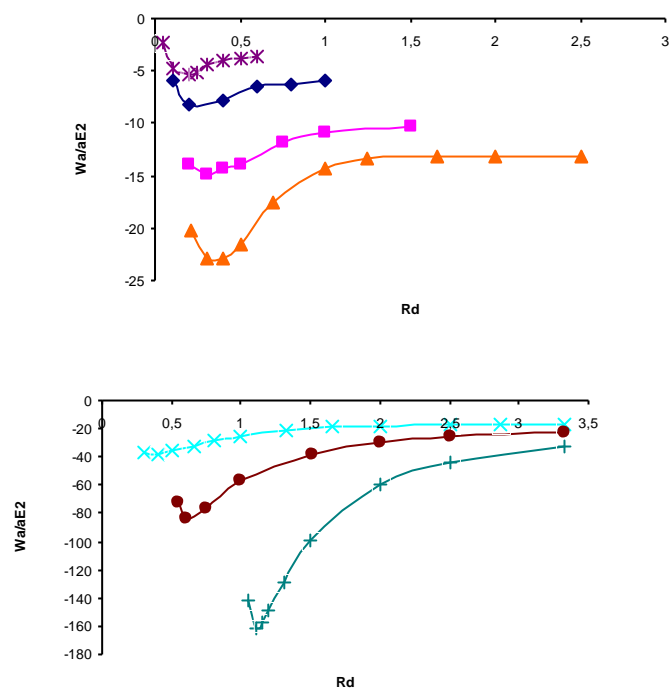


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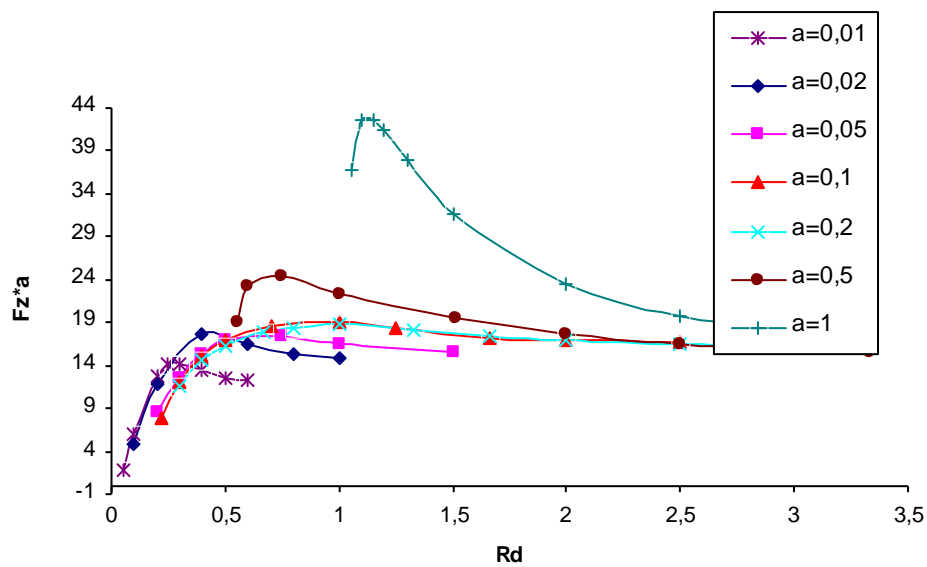
$W,$
 $W_a,$
 $F_z,$
(a) (Rd).



. 2



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[1] . . , «
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622.

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[2] . . , . . , «

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