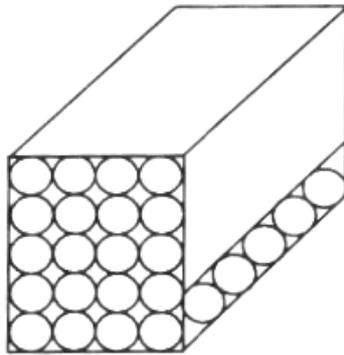


... , ... , ...  
 « »

0,05 5,0

( ) ( .1).  $N = abc$



.1.

$N$  , (1) (2)  $N$  ,  $V_n$ ,

$$V = 8abcR^3 \tag{1}$$

$$V_n = \frac{4}{3}\pi abcR^3 \tag{2}$$

---

$n$

$$n = \frac{V_{nop}}{V} = \frac{4abcR^3(2 - \frac{\pi}{3})}{8abcR^3} \quad (3)$$

$$n = 1 - \frac{\pi}{6} = 0,477.$$

[8].  $m$  ,  $R/m$ .

$$V_o = \frac{4}{3}\pi(R/m)^3 \quad (4)$$

$$m \times n = \frac{2Ra}{2R/m} \cdot \frac{2Rb}{2R/m} \cdot \frac{2Rc}{2R/m} = abc m^3$$

$$V_{m,n} = \frac{4}{3}\pi abc m^3 (R/m)^3 = \frac{4}{3}\pi abc R^3 \quad (5)$$

$V$  ((5) (2)),

$$n = \frac{4abcR^3(2 - \frac{\pi}{3})}{8abcR^3} = 1 - \frac{\pi}{6} = 0,477$$

[8].

( 2 ),

$R$   $r < R$ .

$R$   $r$ ,

2R

(R+r) ( . 2 ).

$$V_n = \frac{4}{3} \pi (r^3 + R^3) \quad (6)$$

( . . 2 )

$$SA^2 = OA^2 + SO^2; OA = R\sqrt{2}; SA = R + r; SO = R$$

$$r = 0,732R \quad (7)$$

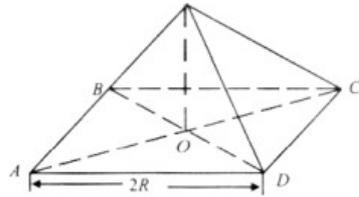
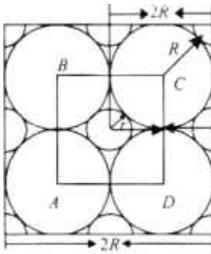
(7) (8),

(3),

n=0,271.

( =90° ) ( . 2 ),

0,477 0,271.



. 2.  
( =90° ).

R =60°

r,

:

$$r = 0,2247R \quad (8)$$

n=0,251.

n=0,258 [6], . .

60°

---

[5,9]

r

$$=90^\circ \quad =60^\circ \quad (9) \quad (10)$$

$$r = 0,414R \quad (9)$$

$$r = 0,155R \quad (10)$$

(7) (8).

1. . . . . - . . . . .
  2. . . . . . . . . . .
  3. . . . . - . . . . . ;
2001. - 564 .
4. . . . .
  5. . . . . - . . . . . ;
  6. . . . . , 1985. - 240 .
  7. . . . .
  8. . . . . , 1968. - 291 .
  9. . . . . , 1986. - 239 .
  10. . . . . ( . . . . . ) .
  11. . . . . , 1975. - 296 .
  12. . . . . , 1986. - 160 .
  13. . . . . / . . . . . - . . . . .
  14. . . . . , 2003. - 287 .