| | ID: 20212203004 |
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| | Intake: 38 |
| | Section: IA. M. andul A. (Hims) 545 |
| | Declion. H |
| | 27.16// 1. meda 1 (11.00) 11 11 100 |
| | For dark rings of x x x x . 9 |
| | $D_n^2 = 4nhR$ |
| | Brs x Hs. |
| | on, (0.5) = <u>4x10x5900 x10-8xR</u> |
| | 1 10 X 0 3 W X 7 8 0 X P |
| | on, R = 106 cm |
| | For dark trings, the thickness of the aire-bilm |
| | For dork himse the |
| 3 | os, the Thicknem of the airc-bilm |
| UNL | mer morsiven by 2 He = n2 |
| | A A B ~ C |
| | OE SXIX E = 10 X5000 X 10-8 |
| | 0h .n |
| | on, e - 20,5 x 10-5 cm |
| | |
| | 1 - 6.00 : - A : " (6.00) |
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| | |
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27.17/

SHE = (2m-1). } where m=14 moils

on, 24 e = (2m+1) 1 where n=3

·. e = 7x5x10-5 (= 1)

= 8.75 × 10-5 cm

mo 201 - 8 110 27.18/1 The diameter of the dank rings are proportional D'n & n

> 8-01 X 5002 X 61 - 9 X 1 X S 900 X 10-8 Hence, (20,0) an

> > on, $\frac{n}{10} = \frac{(200)^{2}}{(200)^{2}} = 4$

on ~ = 40

27.19/1 For bright ring, D2 = 24p (2n-1) (100) ON, U = 21R(2n-1) (1 mg) ade , bing (mg) Din = = 2 × 5890 × 10-8 × 90 × (3×2-1) busil (a) 1 = 1.325 27.20/1 For the circ bilm, b= 4 mer on, (0.59) = 4x15xxR For Liquid bilm Dis = 44hp 10th, (0.59 = 0.095 = 4x15x1p On, 21 = 10.50)~

27.21 For bright riongs, (D2) ain = 2 RR (2m-1) and (D2) janid = 2/12(2m-1) Hence M = (Dio) ain
10) liquid ANN = 10 mid = (1.27) = 101 Mar Ar SINX (1X1) = (0000) = 1. 215 all all mlide biopal not (xd(x) 2000 (e30) met. (c. 0) . . 4 110

For dank rings of 4nh? - 4nh? TOINEPLOXXXXX. Dn-1 - Dn1 4 (n+1) LR-48/2 nco 28.201 ... = 42/2 On, R= Dn+1-Dn NKC-KS 13 - 4 m M = 4 (m + 1) 12 R el bono, 1 to aguilor it (0:3736) The (0:2) anod ou moiton, 5.0 x 10-50 -01 x 2.11 x (1+00) H = -01 = 2 421. 36 cm 6: N. 70 Andrew - Jahrand 568 61 X3 XEV VV = min 21-2-0 =

 $D_{m+p}^{2} - D_{m}^{2} = 4pkp$ $O_{m+p}^{2} - D_{m}^{2} = (0.455)^{2} - (0.32)^{2}$ 17 x 4 9 (0 mm) 4 PX1 - 1-11 4 x 4 x 6.145 x 10-5 904 = 105.76 cm Id - 1+ Ad. - ST : 110 D2 = 4m2ip = 4(m+1) 22R one substituting the values of 1, and 12 in the above equation, we have, MD 20 4mx 6x 10-5 = 4(m+1) x 4.5 x 10-5 OH, N = 3 Hence D= Junh, R = V4 x3 x 6 x 10 5 x 90 = 0.545 cm

The readius of the non dorch rung due to he The tradium of the lath dark ring due to 8 9 000 Jakik 00 (12) = 17(n+0)/2 191. . (1) As O and O are equal. R= VmxiR

- V6+Dx2P Or, modite = (1+0) 25 x 2:01 x (010 x 5: x (1- 10) 12 12 801 x J. 01 x (1-nc) 1, -22 TC = TNAIR = V Arde R hi-ha

. 4:

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$$D_{15}^{2} - D_{2}^{2} = \frac{4nhR}{u}$$

