习题10.4 包好 @= Ss. (Sux+y2) dz.)(x+y2) dxdy 525050 Exsin(xy) drodydx Dz= f(x,y) [4 = x2+y2=16] = 5350 xsincxy)x = dydx Dz={(r.0) | 2= r=4, 0=0=277} = 53 (0 = sincxy) d(xy) dx (2) = [5[64-4(x+y2)](x+y2)dxdy == = 13 (-cosxy) 10 dx = 5000 54 (64-4+2) +3 dr = = = 13 (1- cos TX) dx = 871 x (414- 616)12 == 13 (COSTX-1) dx == (T SINTIX - X) 12 =2304TU : [[(x2,y')dxdydz = 0+0) = 2560 TT 1615) SSS(x+yt)dxdydz = SS (S16(x+y2) dz)(x+y2) dxdy+(2)17(1) Sodx Sody Soffdz ZSEX.y Sody Sodx Sorty folz APD= {(x-y) | x4y3<4}= { 数文xxx Sody So dzSo fdx+ 0=1512(x2+y2)2 dxdy Jody Sy dz Jz-y fdx & x= rcoso, y=rsino · D, = {cr.0) | 0 = r = z , 0 = 0 = 2 = } 交换以是 JodE [dy Jo fdx+ .. 0= 55 12(12)2 1 dod0 + Jode Se dy Sz-y fdx =12 50 do 5 0 r5dr ·· 综上: Sodas oxdy Sxty fdz 2 50 do. 16 0 = Sode Sidy Sofixy, 2) dat = xbTT Sode Sody Sz-yfix, y, z, dx

N= 2 4= 2 N> SP2 ≤ a2 P² = 2a cosq 400 % 两个城山公民最高为 Øy $\int x^2 + y^2 = \frac{3}{2}a^2$ 1813) III fred V = 5-17(1-22) fredde : V= SSS p>singdodydp = 715-1(1-22) fre) de = Sodo Sody So Psingde + 527 do 5 = uy sacosq prosinged 21 X= 1-C050 4-rsind & (x= Psin4coso :. SP= zarcoso 4=Psinysino 2= P cos (p x) (p x) = -V= {(r, 0, 2) | - = = = = , 0 = r = 200050, PB-303 sin2 coses sino coso $0 \le \xi \le \frac{\Gamma^2}{\alpha}$ >p= 3/3sin24cos4sin0cos0 · V= SSrdodrdz x20 420 t20 .. ye (o.]], Octo.] $= \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} d\theta \int_{0}^{2a \cos \theta} dr \int_{0}^{\frac{\pi}{2}} rol z$: V= SSS e=sing dodip of = [] do]] dy [] 35: in your 45 in 8 cost 2 = (sinycoso 2 4= (sinysino) 2 = (cosy 211)

SARY APAGE DUSA ? J= xxy) = | a11 a12 | a4 a22 | 011022-012021 12(8) Pro hx 2 8 = 112 X 8. 100 = 51 x 8c =

nw) 20x, y, 2) = |-arsingsind arossocost asing asol 22(6) brsing was broosysing beingsing 8(0.4.r) -crsing ccosy 科拉拉接 = abcr - sinysino cosocosy sinycoso | \$1. x=38 sinycoso sinycoso cosysino sinysino | y=28 sinycoso 1 4=20 singsino Z= p cosy -sing cosy 282 singrosycoso + = abcrisinyx D 2025ing cosusino]x36x6psing D=-sing x sing (cos24+sin24) dodyde - coso x coso (cos24+ sin24) Esing cosq & coso sing = lates 14 = - | : J=-abcrising 为0.(由周期性和对称收到和) 1/2 | = | = abcrising : Lit = W, >16 (4 sing dodydf = 216 [27] do [dy fol sing df = 216x2T Sosinydy my = 864 7 IIx yzzidzdydz. C由于P的积分上下限 与中日元美,农的积分上下限 = Sodx Sody Sod xy23 de 与日无关,所以日本中的 22(8) 积分可以控业来提前积) = 50 dx 50 4 x4 y4 x xy2 dy 作和猕桃 = 450 x5dx 50 y 6dy DIJAX = SSS P2cos24. P2sin4dodydp = 1/28 Sox'2dx = Son do So dy So Pucos ysing of ($y = \frac{1}{28} \times \frac{1}{13} = \frac{1}{364}$ + Sou do stay a pu costosing of I dxdy sy xy 23 dz 扫描全能王 创建

午题图同 20(3) (α=1) De Jo cosysiny dy = -27 (= cosy d (cosy) = -2# x 1 cos 4 1 = (2) = 27 ST cos45ing. 320054d4 (5-05) The 150 = 170] = but (= cos 4 d(cos 4) - [[(s' DV + 5 DS - 5 =) + =] T = -6411 x & cos84 ==== 5×8×256 ×160