1. 在直角坐标系中, 开=P(x.y.z)2.+Q(x,y.z)3+及(x,y,z)k ds = n'. ds = ds · coscn, x31+ ds · coscn, y/2 . + ds. coscn, z'>t = dzdy ? + dxdzj + dxdy k 数分子·ds=sspdydz+Qdxdz+Rdxdy
ss=sspdxdy Szixiy) 発 dz
xydxdy Szixiy) 発 dz = SS R(x, y, Z2(x,y) - R(x,y, Z1(x,y) dxdy [[ R(x,y, z) dxdy = - [[xy R(x,y, Z,1x,y) dxdy [] R(x,y,z) dxdy = [[xy R(x,y, Z,2(x,y) dxdy 且有: [ 12(x,y, 2) dxdy=0 图的 SH TE dv = \$ RH, y, z) dxdy JE 3 d V = St P(x,y, 2) dy dz III = Q(x,y, Z) dzdx 对两边同时对体练取极限到等: div A = 以为 \$1.di

2、在直角坐松车: A=PCX.4、Z) 7+QCX,4、Z) 7+及CX,4、Z) 7 dí=dlcosct.x)? + dlcosoct,y) 3 + dlcosct.z)k = dx? + dy3 + dz = 数多。不di = 多。Pdx+ Qdy + Rdz