

2.9. 取x,y为广义生标 別丁=型(文子y2) V=-e2 · 大神 L= T-V= 1 (x+y2)+ e2 (x+y2) mx + e2x 47 40(x3y)t -0 my + e2y 47 40 (x4y); =0 2-11 建主以尺为广义生好的程生标系 T= = (R2+R2+22) = == R. R V=mgz=mgR L= J-V= = (R2+R2W2+ R2R2) - mgR2 =0 d (R+R)2)+ 9R-W2R-R2220 33 (P3R2). R+ R. R2- PZW2R+PgR20 小环境定时, 户=户=0 2. p2w2R= P9R W= \frac{9}{2} 2.12. 成以只的放送旅建建筑 T= 1 (R2+R2+2+22), V=mgz, R2=03  $L = \frac{m}{2} (\hat{R}^{2} + \hat{R}^{2} \hat{D}^{2} + \frac{4R^{2} \hat{R}^{2}}{a^{2}}) - \frac{mg}{a} R^{2}$ V2=29Z t=0At, Vo2=29h vivo X60 · ZEISS

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2-13. 由抒AC.DG的矩平徵 SP.FG=F.EF+元DF (P'-F')·AB=元'.AC Z== F=F1 + NF2=F2 PFG=FIEF+CP-FI) ABDF PFG=PEF PFG=PEF PFG=PEF 2-15 以加为厚点建全直角生标系 11) V=mg (= cosp-dcoty) 传系为完整保净系统 3V=ng=sinp+mgd=0 = 9= arcsin 3 2d (2) -: x= = sing-ol y= = cosq - d cotq 南虚功 mg 8y20 ap mg (- 1 sin 4 t d sin 4) 84 =0 V= -mgcosp, R-mzgcospzR+zlk(l-2ksin2+12)2 2.18 12 g m, g sing, - k cos 4, the (l-2R) sin 4, the >0

mzg sing - k cos 4, the (l-2R) sin 4, the =0 vivo X60 · ZEISS 2022/09/25 18:30