Ofelege number opegend mechation os Engineering 191520051028
 Jan 72 cos22
Let u= cos 2 >c , du = 3 is 7 =
$du = -2\sin 2x dx, u = -\frac{\cos 2x}{2}$
un-Sun
- cos 2x cos 7ne - \(2 \cos 7 \ne \ \ \sin 2 \ne \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\frac{-\cos 2\pi \cos 7\pi - 2}{7} \cos 7\pi \cos 7\pi \cos 2\pi dz$
Let u = sin 2x, du = cos 7x
$\frac{du = 2\cos 12\pi}{2u} \qquad \qquad \frac{4 = 5\sin 7\pi}{7}$
$\frac{-\cos 2\pi \cos 7\pi - 2}{7} \left(\sin 2\pi \sin 7\pi - \int 2\sin 7\pi \cos 7\pi $
-Ca2x catr - 2 (Sun2x Suta - 2) Sun tx cos 2xd:
$= \int S_{1} a^{2} x \cos 2x dx = -\cos 2x \cos \cos 2x \cos -\frac{2}{7} \left(\frac{S_{1} a^{2} x S_{1} x^{2}}{7} \right)$ $= \frac{2}{7} \left(\frac{S_{1} a^{2} x S_{1} x^{2}}{7} \right)$
- 3 fs. n 7x cos 2x dz
= - 49 cos 2 sc cost = - 145 in 42 5, n7x+c
315

6201200000101 2 (Cos 3 nc cos nc dre * I 2 000 x f my 4 = 0000 dy = cos 370 du = - Sinne doc 1 v = Sin 30c m- Light cosne sin 370 - f - sin 370 sinne dre Cosoc sm32c + 1 Sin3nc Smx dx 2 et a = 5 m ?c d4 = 5 m 3 7 c du = cos 2 dx / V = - Cos3x ru-Judu $\frac{\cos 3 + 3 \cos 4 + 1 \left(-\frac{\sin 3 \cos \cos 3x}{3} - \int_{-\frac{3}{3}}^{-\frac{3}{3}} \cos \frac{3x \cos x}{3}\right)}{3}$ Coszsin3x + 1 (- Sin x cos37c + 1) (cos3x coszd Cox >c Sn3 2 + 1 (-Sn x cos 315) 3 Jac coxate= + 1 Cos3x cosse de 3 cos x sin 3 2 - Sin x coss 2 - + C