Sample & Gruen: Hesup linear collission, 9 Strategy Energy to find Ulo than bour charts te Estimate If collissim were elastic (e=1) than Ot= U, =0 (stops) from experience expect Of just less than 80 -s mall (not some which

KE (ط) cast mŮ, Wint + Wan 1 Vat+Victor 1 Vat-Vit/+ depending on assupptions VIO Vz/ intra

Demple Prob Sahri cont a D 10 = 15t-1t 0 9 = st - 15 = 12+1/14 ·9/ Va= Nis/= Vie - 1-9 V2 f same value

1.4Vi f = 1/2 f

but (a) was assumed, I = 1/9 V2 f

in " wrong direction." 70/V25 129h = 12,981m/2-(015mcos350)

Sample Prob Soln: cont V21=12-9-81(015-01500350) m3/22 = 1.532 m/s = 69 m/s = V25 V, = .73 m/s V, = .036 m/s to find how fair ball sowings just do same enorgy problem from beginn 129hf = Vag $=) h_1 = \frac{\sqrt{24}}{29} = \frac{(699)}{2.9.81} = 0.0243 \text{ m}$ $= \frac{\sqrt{24}}{29} = \frac{(699)}{2.9.81} = 0.0243 \text{ m}$ $= \frac{1500}{2.5700} = \frac{1500}{2.500} = \frac{1$ 8 = cos 12-57cm = 3320 f 2.43 cm When Discussion. Many small ervors to corten and lots of conceptual thinking. In the end it all feels consistent and reasonable for 15 cm pends