Chell for discussion

CH132 Assigned problems

Chapter 1

b)
$$\frac{2.005}{1.504} - 1.3\overline{53} = \frac{4}{3} S_{13} N_{4} = 7 \frac{4}{3} = 1.33\overline{3}$$

It compand has 2.33 more silican the Company 2

So Sin No or SiN

a) 40 or 4,0 b) All would be a 1: I ratio, so send possibility 13) 2N,0 +30, -> 4NO, & balancing. " According to rapion we need 21 of N,O we need 31 of O2 17) Natural Horiz mass = 92.21 - 27,27693 + 4,7.78.17649 + 3.09.29.49316 2 \$ 79.752 1 136.189503 + 92.6189 100 28.0855 2 28.086 19) 19.61. 10.013 + 80.39 · X 10.811 : 1081.1 - 196.35493 X 80.39 11.0056 = X 211.01

21) Plutonium: 94 protos and 94 electors.

a) Nucleon: Proton b) 94 electrons

145 : 44

1 - 31212: -21 . FP. E B A C - - - - - - - - - - - - - - - 12

145/94=154

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23) 95 ptotos 95 electron 146 neutron

25) 126.90447 g moj- 1 2nd = 6.023.1023 partids

INVESTMENT POLICE PROCESSED PROPERTY OF THE PR

So 1 pur tide = 126.90447 = 2.107298,10-22 6.023.1023

27) a) Py O10 = 4.30.974 + 10.15.919 = 283.89

b) B, C1 = 71.904 + 35.45 = 115.36

c) Ca (NO3) = 40.028 + [(14.007 + 3.15.91).2] = 164.09

d) KM, O4 = 39.008 + 54.938 + 4. 5.98 = 158.03

e) (NHy), SOy = (14.007 +4.1.008).2 + 32.06 +4.15.999 = 132.13

31) Vidomin A porticle member = 20.6.023.1023 + 30.6.023.1023 + 6.023.1023 = 3.071.1025

Vitamm Az = 49.6.023-1023 = 2.451.1025

SI = 1.0408 & 1.041 mol.

33) 34.5 kg = 34500 g Velic = 34500 = 2536.76 cm3 = 2.54 L

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35) Mas of Almon Ocode = 3.97. 15: 59.589

mars = moles. Fala Mr (Al203) = (26.982.2) +(3.1579) = 53.964 + 47.97

rules = 59.55 0.58 : 101.934

of molale = 0.58.6.023.1023 2190, # of alarma portrich = 3.49.1023 = 3.49.1023

Appendix A

1) a) $5.8.10^{-5}$ c) 7.93 e) $2.530.10^{-3}$ b) 4.10^{2} d) $-6.59300.10^{3}$ f) 1.47

7) a) 135,649 Should be excludes as its an outlier
b) 111.42 + 111.67 + 111.21 +111.02 + 111.42 = 111.349

c)

index = Vec (1:2:04)

11) al 5 b) 3 c) 2 d) 3 e) 4

13) a) 14 b)-0.00 35 c) 340 d) 3.4.162 e) 6.2.10-22

(7) a) - 167.25 b) 76 c) Convert to some totaline; 3.1693.1015

19) a) -8.40 b) 0.147 c) 3.24.10-12 d) 4.5.1013

Applis B. 1

1) a) 6.52.10-10 b) 8.8.10-11 c) 5.4.1012 kg m25-3 d) 1.7.164 kg m25-3A-1

7) a) 24.6 ms-1 b) 1.51.103 kg m->
c) 1.6.10-29 Asm d) 1.5.102 mol m-3
e) 6.7 kg m² 5-3-6.7 w

4) 1 hwhr = 3.6.10° J; 15.3 k V-4, = 551.107 J

I way to odd numbers.

Marke valo Eggl elents , and subscript (: end)

Appordix C.3 13) a14.551 b) 1.53.10-7 (12.6.103 d)-49.7264 17) 121.477 /1 279 - nothin 12; the had been by 14 (d) 21. Feb. - 10 (A) 19 1 7.751 add -2,249 Target and state of the state of war in

JAF LATITUDE TO



