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**Mnitrogen+ 0.21**

**Moxygen. =**

$$0.79(28) + 0.21(32)$$

$$= 28.84$$

**The mass**

**fractions of**

**oxygen and**

**nitrogen in air are**

**then mfoxygen=**  
$$(0.21)(32)/28.84 =$$

$$0.233, \text{ or } 23.3\%$$

**and mfnitrogen=**

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**4. Write additional data required to solve the problem and the chemical equations if the process involves chemical reaction.**

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**5. Select a suitable basis of calculations. 6.**

**List by symbols each of the unknown values of the stream flows and compositions**

**7. Make a number of independent material balances equations equal to unknown**

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fluid flow, heat  
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$$z + zP. z. z = \hat{g}$$

**(2.2.8) Setting the  
limit on the left  
hand side as  $z \rightarrow 0$**

**gives the definition  
of the derivative of  
P with respect to z:**

$$dP/dz = \hat{g} \quad (2.2.9)$$

**In other words, the**

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***change in  
pressure,  $P$ , with  
height,  $z$ , is  
negative –  
pressure reduces  
with height (or  
increases with  
depth – as any  
diver knows).***

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**of the derivative of  
P with respect to z:  
 $dP/dz = -\rho g$  (2.2.9)**

**In other words, the change in pressure, P, with height, z, is negative – pressure reduces with height (or increases with depth – as any diver knows).**

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