Introduction and Mathematical Preliminaries

1.1 Let **C** be a vector along the line passing through the terminal point of vector **A** and parallel to vector **B**. Let **r** be the position vector to an arbitrary point on the line parallel to vector **B** and passing through the terminal point of vector **A**. Then the desired equation of the line is (see Fig. P1.1)

$$\mathbf{r} = \mathbf{A} + \mathbf{C} = \mathbf{A} + \beta\hat{e}_B, \quad \hat{e}_B = \frac{\mathbf{B}}{|\mathbf{B}|},$$

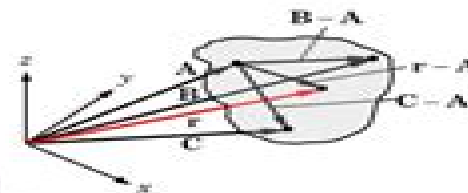where β is a real number.

Fig. P1.1

Fig. P1.2

1.2 Let **r** denote the position vector. The vectors connecting the terminal points of vectors **A**, **B**, **C**, and **r** should be in the plane. Thus, for example, the scalar triple product of the vectors **B** − **A**, **C** − **A**, and **r** − **A** should be zero in order that they are co-planar, as shown in Fig. P1.2:

$$(\mathbf{C} - \mathbf{A}) \times (\mathbf{B} - \mathbf{A}) \cdot (\mathbf{r} - \mathbf{A}) = 0 \quad [\text{or} \quad \varepsilon_{ijk}(C_i - A_i)(B_j - A_j)(x_k - A_k) = 0]$$

For example, if $\mathbf{A} = \hat{e}_1$, $\mathbf{B} = \hat{e}_2$, and $\mathbf{C} = \hat{e}_3$, then the equation of the plane is $-x - y - z + 1 = 0$ or $x + y + z = 1$.

1.3 Consider the parallelogram formed by points O, A, C, and B, as shown in Fig. P1.3. Let us denote the line segment connecting O to A as vector **A**, O to B as vector **B**, O to C as vector **C**, and B to A as vector **D**. Suppose that vectors **C** and **D** intersect and cross at distances $\alpha\mathbf{C}$ and $\beta\mathbf{D}$. Then we have the following relations among the four vectors:

$$\mathbf{A} = \alpha\mathbf{C} + (1 - \beta)\mathbf{D}; \quad \mathbf{A} = \beta\mathbf{D} + (1 - \alpha)\mathbf{C} \tag{1}$$

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web question 28 following information has been given by rajendra prepare a bank reconciliation statement as on 31st dec 2016 showing balance as per cash book i debit balance shown by the pass book rs 17 800 ii cheques of rs 21 600 were issued in the last week of december but of these rs 14 800 only were presented for payment