

# 1

## 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)

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

where  $\beta$  is a real number.



Fig. P1.1

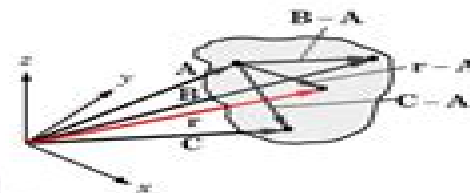


Fig. P1.2

- 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:

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

For example, if  $A = \hat{e}_1$ ,  $B = \hat{e}_2$ , and  $C = \hat{e}_3$ , 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  $\alpha C$  and  $\beta D$ . Then we have the following relations among the four vectors:

$$A = \alpha C + (1 - \beta)D; \quad A = \beta D + (1 - \alpha)C \quad (1)$$

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**Thierry Bouwmans, Necdet Serhat  
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