

① TEORIA DEI VETTORI (Vettori liberi) CAP I

Cenni sui vettori liberi e relative proprietà

Sia \underline{u} un vettore libero, ovvero un insieme di infiniti segmenti orientati, aventi lo stesso vers., lo stesso modulo e la stessa direzione.

Con la notazione di Goursier, il vettore libero si può scrivere in questo modo:

$$\underline{u} = P - O$$



Risultante (o somma) di più vettori liberi

Consideriamo n vettori liberi:

$$\underline{v}_1 = P_1 - P_0; \quad \underline{v}_2 = P_2 - P_1; \quad \dots; \quad \underline{v}_n = P_n - P_{n-1}.$$

S' intende per risultante (o somma degli n vettori liberi), e si indica con \underline{R} , il vettore libero individuato da: $\underline{R} = P_n - P_0 = \underline{v}_1 + \underline{v}_2 + \dots + \underline{v}_n$.

Esempi

$$n=4) \quad \underline{v}_1 + \underline{v}_2 + \underline{v}_3 + \underline{v}_4 = \underline{R}$$



Note: $\underline{R} = \underline{0}$ se e solo se il "punto d'applicazione" del 1° vettore lib. coincide con il "punto libero" dell'ultimo vett. libero ($P_0 = P_n$), cioè i vettori formano un poligono dei vettori chiuso.



$$n=2) \quad \underline{v}_1 + \underline{v}_2 = \underline{R} \quad \text{con} \quad \underline{v}_1 = P_1 - P_0 \quad \text{e} \quad \underline{v}_2 = P_2 - P_1$$

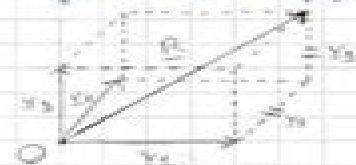


- Consideriamo il caso con $n=2$ in cui i vettori liberi hanno lo stesso pt. di applicazione



In questo caso la risultante coincide con la diagonale del parallelogrammo.

- Possiamo ora il caso in cui 3 vettori liberi hanno lo stesso pt. d'applicazione.



S' dimostra che il risultante dei 3 vettori liberi coincide con la diagonale del parallelepipedo che ha per lati i tre vettori.

La \underline{R} congiunge i due estremi opposti.

Appunti Di Fisica Matematica A A 2010 2011

Lei Shi



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