#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

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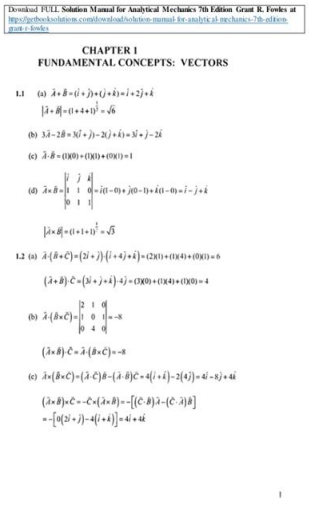
My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks



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CHAPTER 1
FUNDAMENTAL CONCEPTS: VECTORS

1.1 (a) $\vec{A}+\vec{B}=(\hat{i}+\hat{j})+(\hat{j}+\hat{k})=\hat{i}+2\hat{j}+\hat{k}$

$|\vec{A}+\vec{B}|=(1+4+1)^{\frac{1}{2}}=\sqrt{6}$

(b) $3\vec{A}-2\vec{B}=3(\hat{i}+\hat{j})-2(\hat{j}+\hat{k})=3\hat{i}+\hat{j}-2\hat{k}$

(c) $\vec{A}\cdot\vec{B}=(1)(0)+(1)(1)+(0)(1)=1$

(d) $\vec{A}\times\vec{B}=\begin{vmatrix}\hat{i} & \hat{j} & \hat{k}\\ 1 & 1 & 0\\ 0 & 1 & 1\end{vmatrix}=\hat{i}(1-0)+\hat{j}(0-1)+\hat{k}(1-0)=\hat{i}-\hat{j}+\hat{k}$

$|\vec{A}\times\vec{B}|=(1+1+1)^{\frac{1}{2}}=\sqrt{3}$

1.2 (a) $\vec{A}\cdot(\vec{B}\times\vec{C})=(2\hat{i}+\hat{j})\cdot(\hat{i}+4\hat{j}+\hat{k})=(2)(1)+(1)(4)+(0)(1)=6$

$(\vec{A}+\vec{B})\cdot\vec{C}=(3\hat{i}+\hat{j}+\hat{k})\cdot 4\hat{j}=(3)(0)+(1)(4)+(1)(0)=4$

(b) $\vec{A}\cdot(\vec{B}\times\vec{C})=\begin{vmatrix}2 & 1 & 0\\ 1 & 0 & 1\\ 0 & 4 & 0\end{vmatrix}=-8$

$(\vec{A}\times\vec{B})\cdot\vec{C}=\vec{A}\cdot(\vec{B}\times\vec{C})=-8$

(c) $\vec{A}\times(\vec{B}\times\vec{C})=(\vec{A}\cdot\vec{C})\vec{B}-(\vec{A}\cdot\vec{B})\vec{C}=4(\hat{i}+\hat{k})-2(4\hat{j})=4\hat{i}-8\hat{j}+4\hat{k}$

$(\vec{A}\times\vec{B})\times\vec{C}=-\vec{C}\times(\vec{A}\times\vec{B})=-\left[(\vec{C}\cdot\vec{B})\vec{A}-(\vec{C}\cdot\vec{A})\vec{B}\right]$
$=-\left[0(2\hat{i}+\hat{j})-4(\hat{i}+\hat{k})\right]=4\hat{i}+4\hat{k}$