

68. The initial position vector  $\vec{r}_o$  satisfies  $\vec{r} - \vec{r}_o = \Delta\vec{r}$ , which results in

$$\vec{r}_o = \vec{r} - \Delta\vec{r} = (3\hat{j} - 4\hat{k}) - (2\hat{i} - 3\hat{j} + 6\hat{k}) = -2.0\hat{i} + 6.0\hat{j} - 10\hat{k}$$

where the understood unit is meters.