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Evaluate the line integral $\int_C \mathbf{F} \cdot d\mathbf{r}$, where C is given by the vector function $\mathbf{r}(t) = (\sin t, \cos t, t)$. $\mathbf{F}(x, y, z) = \sin x \mathbf{i} + \cos y \mathbf{j} + xz \mathbf{k}$, $\mathbf{r}(t) = t^3 \mathbf{i} - t^2 \mathbf{j} + t^2 \mathbf{k}$, $0 \leq t \leq 1$. Step-by-step solution: 100% (20 ratings) for this solution.

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Solution: The velocity vector is $(e^t, e^t, \sin t)$, which at $t = 0$ is the vector $(e, e, \sin 0)$. The particle is at $(e, e, \cos 0)$ at $t = 0$. Hence the tangent line placing the particle at its "take off" point at $t = 0$ is $(t) = (e, e, \cos 0) + t(1)(e, e, \sin 0)$: At $t = 2$, the position of the particle is on the line and is at $(2e, 2e, \cos 2)$.

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Part A has problems from the text (Simmons, George F. Calculus with Analytic Geometry, 2nd ed. New York, NY: McGraw-Hill, 1995. ISBN: 0070576424.), with answers to many in the back of the text, and problems from the 18.02 Supplementary Notes and Problems with solutions at the end of the Notes. Look at the solutions if you get stuck, but try to ...

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Emphasizes acquisition of solution techniques; illustrates ideas with specific example problems arising in science and engineering. Includes applications of vector differential calculus, complex variables; line-surface integrals; integral theorems; and Taylor and Laurent series, and contour integration. Prerequisite: either MATH 126 or MATH 136.

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