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Spacetime 1. a) 0.5 1. $t = 0.1$ z b) The maximum z occurs where $0 = z = 2t - 3t^2$, or $t = 2/3$. At that time, $z = (2/3)^2 - (2/3)^3 = 4/27$. c) The velocity at departure is $z'(0) = 0$. The velocity at return is $z'(1) = -1$. d) Replacing the factor $(1 - t)$ by $(1 - t)^2$ in $z(t)$ will make $z'(1) = 0$. Then, for example, any graph of the form

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The topics treated in this book are essentially those that a graduate student of physics or electrical engineering should be familiar with in classical electromagnetism. Each topic is analyzed in detail, and each new concept is explained with examples. The text is self-contained and oriented toward the student. It is concise and yet very detailed in mathematical calculations; the equations are explicitly derived, which is of great help to students and allows them to concentrate more on the physics concepts, rather than spending too much time on mathematical derivations. The introduction of the theory of special relativity is always a challenge in teaching electromagnetism, and

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this topic is considered with particular care. The value of the book is increased by the inclusion of a large number of exercises.

The manual, prepared by David Mills, professor emeritus at the College of the Redwoods in California, provides solutions for selected odd-numbered end-of-chapter problems in the textbook and uses the same side-by-side format and level of detail as the Examples in the text.

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