CHAPTER 12 MOTION ALONG A CURVE

12.1 The Position Vector (page 452)

This section explains the key vectors that describe motion. They are functions of t. In other words, the time is a "parameter." We know more than the path that the point travels along. We also know where the point is at every time t. So we can find the relocity (by taking a derivative).

In Chapter 1 the velocity v(t) was the derivative of the distance f(t). That was in one direction, along a line. Now f(t) is replaced by the position vector $\mathbf{R}(t)$. Its derivative is the velocity vector $\mathbf{v}(t)$:

position
$$\mathbf{R}(t) = x(t)\mathbf{i} + y(t)\mathbf{j} + x(t)\mathbf{k}$$
 velocity $\mathbf{v}(t) = \frac{d\mathbf{R}}{dt} = \frac{dx}{dt}\mathbf{i} + \frac{dy}{dt}\mathbf{j} + \frac{dx}{dt}\mathbf{k}$.

The next derivative is the acceleration vector a = dv/dt.

The direction of \mathbf{v} is a unit vector $|\mathbf{v}|$. This is the tangent vector \mathbf{T} . It is tangent to the path because \mathbf{v} is tangent to the path. But it does not tell us the speed because we divide by $|\mathbf{v}|$; the length is always $|\mathbf{T}| = 1$. The length $|\mathbf{v}|$ is the speed ds/dt. Integrate to find the distance traveled. Remember: \mathbf{R} , \mathbf{v} , \mathbf{a} , \mathbf{T} are vectors.

Read-throughs and selected even-numbered solutions:

The position vector $\mathbf{R}(t)$ along the curve changes with the parameter t. The velocity is $d\mathbf{R}/dt$. The acceleration is $d^2\mathbf{R}/dt^2$. If the position is $i+tj+t^2k$, then $\mathbf{v}=j+2t$ k and a=2k. In that example the speed is $|\mathbf{v}|=\sqrt{1+4t^2}$. This equals $d\mathbf{s}/dt$, where s measures the distance along the curve. Then $s-\int (d\mathbf{s}/dt)dt$. The tangent vector is in the same direction as the velocity, but \mathbf{T} is a unit vector. In general $\mathbf{T}=\mathbf{v}/|\mathbf{v}|$ and in the example $\mathbf{T}=(j+2t\,\mathbf{k})/\sqrt{1+4t^2}$.

Steady motion along a line has a = zero. If the line is x = y = x, the unit tangent vector is $\mathbf{T} = (\mathbf{i} + \mathbf{j} + \mathbf{k})/\sqrt{2}$. If the speed is $|\mathbf{v}| = \sqrt{3}$, the velocity vector is $\mathbf{v} = \mathbf{i} + \mathbf{j} + \mathbf{k}$. If the initial position is (1,0,0), the position vector is $\mathbf{R}(t) = (1+t)\mathbf{i} + t\mathbf{j} + t\mathbf{k}$. The general equation of a line is $x = x_0 + tv_1$, $y = y_0 + tv_2$, $x = x_0 + tv_2$. In vector notation this is $\mathbf{R}(t) = \mathbf{R}_0 + t\mathbf{v}$. Eliminating t leaves the equations $(x - x_0)/v_1 = (y - y_0)/v_2 = (x - x_0)/v_3$. The line from $\mathbf{R}_0 = (1,0,0)$ to (2,2,2) with $|\mathbf{v}| = 3$ is $\mathbf{R}(t) = (1+t)\mathbf{i} + 2t\mathbf{j} + 2t\mathbf{k}$.

Steady motion around a circle (radius r, angular velocity ω) has x = r cos ωt , y = r sin ωt , x = 0. The velocity is $\mathbf{v} = -r\omega$ sin ωt if $\mathbf{r} = -r\omega$ cos ωt j. The speed is $|\mathbf{v}| = r\omega$. The acceleration is $\mathbf{a} = -r\omega^2$ (cos ωt i + sin ωt j), which has magnitude $r\omega^2$ and direction toward (0,0). Combining upward motion $\mathbf{R} = r\mathbf{k}$ with this circular motion produces motion around a helix. Then $\mathbf{v} = -r\omega$ sin ωt i + $r\omega$ cos ωt j + k and $|\mathbf{v}| = \sqrt{1 + r^2\omega^2}$.

- 2 The path is the line x+y=2. The speed is $\sqrt{(dx/dt)^2+(dy/dt)^2}=\sqrt{2}$.
- 10 The line is $(x, y, s) = (3, 1, -2) + t(-1, -\frac{1}{3}, \frac{2}{3})$. Then at t = 3 this gives (0, 0, 0). The speed is distance = $\frac{\sqrt{3.5} \cdot 1.5}{3} = \frac{\sqrt{3.5}}{3}$. For speed s' choose $(x, y, s) = (3, 1, -2) + \frac{e^{\frac{1}{3}}}{\sqrt{14}}(-3, -1, 2)$.
- 14 $x^2 + y^2 = (1 + t)^2 + (2 t)^2$ is a minimum when 2(1 + t) 2(2 t) = 0 or 4t = 2 or $t = \frac{1}{2}$. The path crosses y = x when 1 + t = 2 t or $t = \frac{1}{2}$ (again) at $x = y = \frac{3}{2}$. The line never crosses a parallel line like x = 2 + t, y = 2 t.
- 20 If $x = \frac{dx}{dt} + y = \frac{dy}{dt} = 0$ along a path then $\frac{d}{dt}(x^2 + y^2) = 0$ and $x^2 + y^2 = constant$.

Chapter 12 Motion Problems

Barnett Rich

Chapter 12 Motion Problems:

Motion Analysis and Image Sequence Processing M. Ibrahim Sezan, Reginald L. Lagendijk, 2012-12-06 An image or video sequence is a series of two dimensional 2 D images sequen tially ordered in time Image sequences can be acquired for instance by video motion picture X ray or acoustic cameras or they can be synthetically gen erated by sequentially ordering 2 D still images as in computer graphics and animation The use of image sequences in areas such as entertainment visual communications multimedia education medicine surveillance remote control and scientific research is constantly growing as the use of television and video systems are becoming more and more common The boosted interest in digital video for both consumer and professional products along with the availability of fast processors and memory at reasonable costs has been a major driving force behind this growth Before we elaborate on the two major terms that appear in the title of this book namely motion analysis and image sequence processing we like to place them in their proper contexts within the range of possible operations that involve image sequences In this book we choose to classify these operations into three major categories namely i image sequence processing ii image sequence analysis and iii visualization The interrelationship among these three categories is pictorially described in Figure 1 below in the form of an image sequence triangle Handbook of Marine Craft Hydrodynamics and Motion Control Thor I. Fossen, 2021-03-22 Handbook of MARINE CRAFT HYDRODYNAMICS AND MOTION CONTROL The latest tools for analysis and design of advanced GNC systems Handbook of Marine Craft Hydrodynamics and Motion Control is an extensive study of the latest research in hydrodynamics guidance navigation and control systems for marine craft The text establishes how the implementation of mathematical models and modern control theory can be used for simulation and verification of control systems decision support systems and situational awareness systems Coverage includes hydrodynamic models for marine craft models for wind waves and ocean currents dynamics and stability of marine craft advanced guidance principles sensor fusion and inertial navigation This important book includes the latest tools for analysis and design of advanced GNC systems and presents new material on unmanned underwater vehicles surface craft and autonomous vehicles References and examples are included to enable engineers to analyze existing projects before making their own designs as well as MATLAB scripts for hands on software development and testing Highlights of this Second Edition include Topical case studies and worked examples demonstrating how you can apply modeling and control design techniques to your own designs A Github repository with MATLAB scripts MSS toolbox compatible with the latest software releases from Mathworks New content on mathematical modeling including models for ships and underwater vehicles hydrostatics and control forces and moments New methods for guidance and navigation including line of sight LOS guidance laws for path following sensory systems model based navigation systems and inertial navigation systems This fully revised Second Edition includes innovative research in hydrodynamics and GNC systems for marine craft from ships to autonomous vehicles operating on the surface and under water Handbook of Marine Craft

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Freedman, 2000 This work aims to enable students to develop physical intuition and strong prblem solving skills In addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students

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