

Phys 7221 Homework #3

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1. Derivation 2-4: Geodesics on a spherical surface

Points on a sphere of radius R are determined by two angular coordinates, an azimuthal angle ψ and a polar angle θ :

$$\mathbf{r} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k} = R(\sin\psi\cos\theta\mathbf{i} + \sin\psi\sin\theta\mathbf{j} + \cos\psi\mathbf{k})$$

When moving on the sphere, the differential arc length ds is

$$\begin{aligned} ds^2 &= dx^2 + dy^2 + dz^2 \\ &= R^2((\cos\psi\cos\theta d\psi - \sin\psi\sin\theta d\theta)^2 + (\cos\psi\sin\theta d\psi + \sin\psi\cos\theta d\theta)^2 + (-\sin\psi d\psi)^2) \\ &= R^2(d\psi^2 + \sin^2\psi d\theta^2) \end{aligned}$$

The distance on the sphere between two points is then

$$l = \int ds = R \int \sqrt{d\psi^2 + \sin^2\psi d\theta^2} = R \int d\theta \sqrt{\left(\frac{d\psi}{d\theta}\right)^2 + \sin^2\psi} = R \int d\theta f(\psi, \psi')$$

We can use a variational principle for finding the path with minimum length between two points. The path is described by a function $\psi(\theta)$, and the (differential) equation for ψ can be obtained from the Euler-Lagrange equation using $f(\psi, \psi') = \sqrt{\sin^2\psi + \psi'^2}$.

Back to the variational principle: the equation for ψ is

$$\begin{aligned} 0 &= \frac{d}{d\theta} \frac{\partial f}{\partial \psi'} - \frac{\partial f}{\partial \psi} \\ &= \frac{d}{d\theta} \left(\frac{\psi'}{f} \right) - \frac{\sin\psi \cos\psi}{f} \\ &= \frac{\psi''}{f} - \frac{\psi' f'}{f^2} - \frac{\sin\psi \cos\psi}{f} \\ &= \frac{\psi''}{f} - \frac{\psi' \psi' \sin\psi \cos\psi + \psi' \psi''}{f^2} - \frac{\sin\psi \cos\psi}{f} \end{aligned}$$

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Asymptotic Theory of Separated Flows Vladimir V. Sychev,1998-08-28 Boundary layer separation from a rigid body surface is one of the fundamental problems of classical and modern fluid dynamics The major successes achieved since the late 1960s in the development of the theory of separated flows at high Reynolds numbers are in many ways associated with the use of asymptotic methods The most fruitful of these has proved to be the method of matched asymptotic expansions which has been widely used in mechanics and mathematical physics There have been many papers devoted to different problems in the asymptotic theory of separated flows and we can confidently speak of the appearance of a very productive direction in the development of theoretical hydrodynamics This book will present this theory in a systematic account The book will serve as a useful introduction to the theory and will draw attention to the possibilities that application of the asymptotic approach provides *Applied Mechanics Reviews*,1972

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ultimately prevent research projects getting started as individual components are protected by different patent owners This book examines legal measures which might be used to solve the problem of fragmentation of patents in genetics

Production and Operation Management Solutions Manual Gaotjer,Frazier,1998-09 *A Numerical Solution for the Laminar Wake Behind a Finite Flat Plate* Allen Plotkin,Stanford University. Division of Engineering Mechanics,1968 A numerical solution is presented for the laminar two dimensional viscous incompressible wake behind a finite flat plate The plate is infinitely thin and is aligned parallel to a uniform stream The Reynolds number based on plate length is assumed large enough to allow the formation of boundary layers on the sides of the plate The upstream influence of the trailing edge disturbance necessitates solving the complete Navier Stokes equations in the trailing edge region The aim of the investigation is to calculate an improved first approximation to the solution in this region for large values of the Reynolds number The elliptic equations define a boundary value problem A finite difference solution to equations which closely approximate the Navier Stokes equations is obtained in a rectangular region which includes the trailing edge A relaxation type procedure is used Weighted differences which combine backward and central differences in equal proportion are introduced to provide the upstream influence in the scheme The nonlinear partial differential equations are replaced by linear difference equations and iteration is used until the solutions converge Solutions are obtained for Reynolds numbers larger than 100 000 A complete description of the flow field is provided in the rectangle and downstream wake except in a very small region surrounding the trailing edge Author **El-Hi Textbooks and Serials in Print** ,2006 **Genetics** Peter J. Russell,1992 Spectroscopy Edward Charles Cyril Baly,1927 **The Publishers' Trade List Annual** ,1986

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