

$$\frac{\delta^2}{2} = 22.65 \frac{\mu}{\rho U_e} x + C_1 \quad \xrightarrow{x=0 \rightarrow \delta=0 \rightarrow C_1=0} \quad \delta(x) = \sqrt{\frac{45.3 \mu x}{\rho U_e}} \rightarrow \frac{\delta}{x} = \frac{6.7}{Re_x^{\frac{1}{2}}}$$

$$\frac{d\theta}{dx} = \frac{C_f}{2} \rightarrow C_f = 2 \frac{d\theta}{dx} = \frac{2\tau_w}{\rho U_e^2} = \frac{2 * 2.65 \mu \frac{U_e}{\delta}}{\rho U_e^2} = 5.3 \frac{\mu}{\rho U_e \delta} = \frac{5.3 \mu}{\rho U_e x \delta}$$

$$C_f = \frac{5.3 \mu}{\rho U_e x} * \frac{1}{\frac{6.7}{Re_x^{\frac{1}{2}}}} = \frac{0.8}{Re_x^{\frac{1}{2}}}$$

Exp2:

چون در صورت سوال تابع $\frac{u}{U_e}$ ذکر نشده است. به صورت دلخواه آن را تابعی درجه دو در نظر می گیریم:

$$\frac{u}{U_e} = a + b \left(\frac{y}{\delta}\right) + c \left(\frac{y}{\delta}\right)^2$$

شرایط مرزی فیزیکی عبارتند از:

$$u = 0 \quad @ \quad y = 0, \quad u = U_e \quad @ \quad y = \delta, \quad \frac{\partial u}{\partial y} = 0 \quad @ \quad y = \delta$$

که ثابت های a ، b و c به صورت زیر حاصل می شود:

$$a=0, \quad b=2, \quad c=-1.$$

$$\frac{u}{U_e} = 2 \left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2$$

$$\delta^* = \int_0^\delta \left(1 - \frac{u}{U_e}\right) dy \rightarrow \int_0^\delta \left(1 - 2 \left(\frac{y}{\delta}\right) + \left(\frac{y}{\delta}\right)^2\right) dy = \frac{1}{3} \delta$$

$$\begin{aligned} \frac{d\theta}{dx} = \frac{C_f}{2} \rightarrow \theta &= \int_0^\delta \frac{u}{U_e} \left(1 - \frac{u}{U_e}\right) dy \\ &= \int_0^\delta \left(2 \left(\frac{y}{\delta}\right) - \left(\frac{y}{\delta}\right)^2\right) \left(1 - 2 \left(\frac{y}{\delta}\right) + \left(\frac{y}{\delta}\right)^2\right) dy = \frac{2}{15} \delta \end{aligned}$$

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and Space Administration**



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Fundamentals of Fluid Mechanics Joseph A. Schetz, Allen E. Fuhs, 1999 Basic fluid dynamic theory and applications in a single authoritative reference The growing capabilities of computational fluid dynamics and the development of laser velocimeters and other new instrumentation have made a thorough understanding of classic fluid theory and laws more critical today than ever before Fundamentals of Fluid Mechanics is a vital repository of essential information on this crucial subject It brings together the contributions of recognized experts from around the world to cover all of the concepts of classical fluid mechanics from the basic properties of liquids through thermodynamics flow theory and gas dynamics With answers for the practicing engineer and real world insights for the student it includes applications from the mechanical civil aerospace chemical and other fields Whether used as a refresher or for first time learning Fundamentals of Fluid Mechanics is an important new asset for engineers and students in many different disciplines **Re-entry Systems** Erwin

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Water Resources Vijay P. Singh, 1996-03-29 Kinematic wave modeling methods are gaining wide acceptance as a fast and accurate way of handling a wide range of water modeling problems This is the first book to provide a thorough reference to the application of KW methods to such problems as the spatial representation of watersheds overland flow routing and channel flow routing **Fox and McDonald's Introduction to Fluid Mechanics** Robert W. Fox, Alan T. McDonald, John W. Mitchell, 2020-06-30 Through ten editions Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts basic principles and analysis methods of fluid mechanics This market leading textbook provides a balanced systematic approach to mastering critical concepts with the proven Fox McDonald solution methodology In depth yet accessible chapters present governing equations clearly state assumptions and relate mathematical results to corresponding physical behavior Emphasis is placed on the use of control volumes to support a practical theoretically inclusive problem solving approach to the subject Each comprehensive chapter includes numerous easy to follow examples that illustrate good solution technique and explain challenging points A broad range of carefully selected topics describe how

to apply the governing equations to various problems and explain physical concepts to enable students to model real world fluid flow situations Topics include flow measurement dimensional analysis and similitude flow in pipes ducts and open channels fluid machinery and more To enhance student learning the book incorporates numerous pedagogical features including chapter summaries and learning objectives end of chapter problems useful equations and design and open ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems

Technical Abstract Bulletin , Subject Guide to Books in Print ,1997

Characterization of the Flowfield Near a Wrap-Around Fin at Supersonic Speeds Carl P. Tilmann,1998 A wall mounted semi cylindrical model fitted with a single wrap around in WAF has been investigated numerically and experimentally with the objective of characterizing the mean and turbulent flowfield near a WAF in a supersonic flowfield Numerical and experimental results are used to determine the nature of the flowfield and quantify the effects of fin curvature on the character of the flow near WAFs This research has been motivated by the need to identify possible sources of a high speed rolling moment reversal observed in sub scale flight tests Detailed mean flow and turbulence measurements were obtained in the AFIT Mach 3 wind tunnel using conventional probes and cross wire hot film anemometry at a series of stations upstream of and aft of the fin shock boundary layer interaction Hot film anemometry results showed the turbulence intensity and Reynolds shear stress in the fuselage boundary layer to be far greater on the concave side of the fin than on the convex side Mean flow was also obtained in the AFIT Mach 5 wind tunnel using conventional pressure probes Numerical results were also obtained at the test conditions employing the algebraic eddy viscosity model of Baldwin and Lomax Correlation with experimental data suggests that the calculations have captured the flow physics involved in this complicated flowfield The calculations corroborated by experimental results indicate that a vortex exists in the fin body juncture region on the convex side of the fin This feature is not captured by the oft used inviscid methods and can greatly influence the pressure loading on the fin near the root

32nd AIAA Fluid Dynamics Conference and Exhibit ,2002

Boundary Layer Analysis Joseph A. Schetz,1993 Introduces the concept of viscous flows covers integral and differential equations used for laminar flow and discusses transitions to turbulent flow internal flows free shear flows and wall bounded turbulent flows

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