# FLOW JETS

HAMPTON H. FOSTER, MARCUS F. HEIDMANN

ELD OF FLOW ABOUT A JET AND EFFECT OF JETS ON STABILITY OF JET-PROPELLED AIRPLANES HERBERT S. RIBNER, 1946 A THEORETICAL INVESTIGATION WAS CONDUCTED ON JET-INDUCED FLOW DEVIATION. ANALYSIS IS GIVEN OF FLOW INCLINATION INDUCED OUTSIDE COLD AND HOT JETS AND JET DEFLECTION CAUSED BY ANGLE OF ATTACK. APPLICATIONS TO COMPUTATION OF EFFECTS OF JET ON LONGITUDINAL STABILITY AND TRIM ARE EXPLAINED. EFFECT OF JET TEMPERATURE ON FLOW INCLINATION WAS FOUND SMALL WHEN THRUST COEFFICIENT IS USED AS CRITERION FOR SIMILITUDE. THE AVERAGE JET-INDUCED DOWNWASH OVER TAIL PLANE WAS OBTAINED GEOMETRICALLY.

Decision of Jets in Ideal Fluids M. I. Gurevich, 2014-05-12 Theory of Jets in Ideal Fluids focuses on the use of hydrodynamics in the theory of Jets in Ideal fluids. The publication first offers information on the introduction to the theory of plane and steady jet flows and flow from a vessel. Discussions focus on flow from a rectangular vessel with an orifice at a corner; vessel with a funnel-shaped bottom and Borda's nozzle; flow from the opening between two flat plates; and Kirchhoff's method. The text then examines infinite flow past a polygonal obstacle, flow around a circular cylinder; cavitating flow around a circular cylinder; cavitating flow around a thin profile at an arbitrary angle of attack; cavitating flow around a flat plate; Villat's integro-differential equation and the existence and uniqueness of the solution; and flow past a plate with the separation from its upper surface. The book takes a look at the flow of a heavy fluid and the effects of surface tension, axisymmetric flow, jet flow of compressible fluid, and unsteady flows. The publication is a dependable reference for hydrodynamicists wanting to explore the theory of jets in ideal fluids.

Manipulation and Control of Jets in Crossflow Ann R. Karagozian, Luca Cortelezzi, Alfredo Soldati, 2014-05-04 Fundamental Non-Reactive Jets in Crossflow and Other Jet Systems; Background on Modeling, Dynamical Systems, and Control; Reactive Jets in Crossflow and Multiphase Jets; Controlled Jets in Crossflow and Control via Jet Systems;

EXPERIMENTAL FLOW CHARACTERISTICS OF A SINGLE TURBULENT JET IMPINGING ON A FLAT PLATE , 1970

CONTEX RINGS AND JETS DANIEL T. H. NEW, SIMON C. M. YU, 2015-03-26 IN THIS BOOK, RECENT DEVELOPMENTS IN OUR UNDERSTANDING OF FUNDAMENTAL VORTEX RING AND JET DYNAMICS WILL BE DISCUSSED, WITH A VIEW TO SHED LIGHT UPON THEIR NEAR-FIELD BEHAVIOUR WHICH UNDERPINS MUCH OF THEIR FAR-FIELD CHARACTERISTICS. THE CHAPTERS PROVIDE UP-TO-DATE RESEARCH FINDINGS BY THEIR RESPECTIVE EXPERTS AND SEEK TO LINK NEAR-FIELD FLOW PHYSICS OF VORTEX RING AND JET FLOWS WITH END-APPLICATIONS IN MIND. OVER THE PAST DECADE, OUR KNOWLEDGE ON VORTEX RING AND JET FLOWS HAS GROWN BY LEAPS AND BOUNDS, THANKS TO INCREASING USE OF HIGH-FIDELITY, HIGH-ACCURACY EXPERIMENTAL TECHNIQUES AND NUMERICAL SIMULATIONS. AS SUCH, WE NOW HAVE A MUCH BETTER APPRECIATION AND UNDERSTANDING ON THE INITIATION AND NEAR-FIELD DEVELOPMENTS OF VORTEX RING AND JET FLOWS UNDER MANY VARIED INITIAL AND BOUNDARY CONDITIONS. CHAPTER OUTLINES THE VORTEX RING PINCH-OFF PHENOMENON AND HOW IT RELATES TO THE INITIAL STAGES OF JET FORMATIONS AND SUBSEQUENT JET BEHAVIOUR, WHILE CHAPTER 2 TAKES A CLOSER LOOK AT THE BEHAVIOUR RESULTING FROM VORTEX RING IMPINGEMENT UPON SOLID BOUNDARIES AND HOW THE USE OF A POROUS SURFACE ALTERS THE IMPINGEMENT PROCESS. CHAPTERS 3 and 4 focus upon the formation of synthetic jets from vortex ring structures experimentally and NUMERICALLY, THE CHALLENGES IN UNDERSTANDING THE RELATIONSHIPS BETWEEN THEIR GENERATION PARAMETERS AND HOW THEY CAN BE UTILIZED IN FLOW SEPARATION CONTROL PROBLEMS. CHAPTER 5 LOOKS AT THE USE OF IMPOSING SELECTED NOZZLE TRAILING-EDGE MODIFICATIONS TO EFFECT CHANGES UPON THE NEAR-FIELD DYNAMICS ASSOCIATED WITH CIRCULAR, NONCIRCULAR AND COAXIAL JETS, WITH A VIEW TO CONTROL THEIR MIXING BEHAVIOUR. AND LAST BUT NOT LEAST, CHAPTER 6 DETAILS THE USE OF UNIQUE IMPINGING JET CONFIGURATIONS AND HOW THEY MAY LEND THEMSELVES TOWARDS GREATER UNDERSTANDING AND OPERATING EFFICACIES IN HEAT TRANSFER PROBLEMS. THIS BOOK WILL BE USEFUL TO POSTGRADUATE STUDENTS AND RESEARCHERS ALIKE WHO WISH TO GET UP TO SPEED REGARDING THE LATEST DEVELOPMENTS IN VORTEX RING AND JET FLOW BEHAVIOUR AND HOW THEIR INTERESTING FLOW DYNAMICS MAY BE PUT INTO GOOD USE IN THEIR INTENDED APPLICATIONS.

**P** URBULENT JETS N. RAJARATNAM, 1976-01-01 TURBULENT JETS

☑ IN SUPERSONIC CROSSFLOW MINGBO SUN, HONGBO WANG, FENG XIAO, 2019-02-18 BASED ON RESEARCH INTO JETS IN SUPERSONIC CROSSFLOW CARRIED OUT BY THE AUTHORS' TEAM OVER THE PAST 15 YEARS, THIS BOOK SUMMARIZES AND PRESENTS MANY CUTTING-EDGE FINDINGS AND ANALYSES ON THIS SUBJECT. IT TACKLES THE COMPLICATED MIXING PROCESS OF GAS JETS AND ATOMIZATION PROCESS OF LIQUID JETS IN SUPERSONIC CROSSFLOW, AND STUDIES THEIR PHYSICAL MECHANISMS. ADVANCED EXPERIMENTAL AND NUMERICAL TECHNIQUES ARE APPLIED TO FURTHER READERS' UNDERSTANDING OF ATOMIZATION, MIXING, AND COMBUSTION OF FUEL JETS IN SUPERSONIC CROSSFLOW, WHICH CAN PROMOTE SUPERIOR FUEL INJECTION DESIGN IN SCRAMJET ENGINES. THE BOOK OFFERS A VALUABLE REFERENCE GUIDE FOR ALL RESEARCHERS AND ENGINEERS WORKING ON THE DESIGN OF SCRAMJET ENGINES, AND WILL ALSO BENEFIT GRADUATE STUDENTS MAJORING IN AERONAUTICAL AND AEROSPACE ENGINEERING.

If the Theory of Jets in an Ideal Fluid M. I. Gurevich, 2014-07-22 Pure and Applied Mathematics, Volume 39: The Theory of Jets in an Ideal Fluid provides a general idea of the theory of Jets. This book serves as an introduction to the classical problems in the theory and provides some knowledge of the fundamentals of hydromechanics. Organized into 12 chapters, this volume begins with an overview of the theory of plane, STEADY FLOW OF AN IDEAL, INCOMPRESSIBLE FLUID. THIS TEXT THEN EXAMINES THE JET FLOW OF AN UNBOUNDED CURRENT ABOUT A FLAT PLATE, PLACED PERPENDICULAR TO THE FLOW. OTHER CHAPTERS CONSIDER A NUMBER OF PROBLEMS INVOLVING THE PLANE FLOW OF FLUID OUT OF VESSELS. THIS BOOK DISCUSSES AS WELL THE PHYSICAL IMPORTANCE OF BRILLOUIN'S CONDITION AND ALSO THE PROBLEM OF CAVITATIONAL FLOW. THE FINAL CHAPTER DEALS WITH THE FLOWS OF WEIGHTLESS FLUID IN ORDER TO KNOW THE EFFECT OF SURFACE TENSION FORCES. THIS BOOK IS A VALUABLE RESOURCE FOR MARINE AND HYDRAULIC ENGINEERS.

#### BREAKUP OF A LIQUID JET IN A TRANSVERSE FLOW OF GAS BRUCE J. CLARK, 1964

BURVEY OF LITERATURE ON FLOW CHARACTERISTICS OF A SINGLE TURBULENT JET IMPINGING ON A FLAT PLATE JAMES W. GAUNTNER, 1970 FLOW CHARACTERISTICS OF SINGLE JETS IMPINGING ON FLAT SURFACES HAVE BEEN STUDIED BY MANY INVESTIGATORS. THE RESULTS OF SOME OF THE NUMEROUS STUDIES ARE SUMMARIZED HEREIN. SUGGESTED METHODS FOR DETERMINING VELOCITIES AND PRESSURES ON WHICH TO BASE HEAT-TRANSFER CORRELATIONS FOR USE IN IMPINGEMENT COOLING DESIGN ARE PRESENTED.

Dev Establishment and Initial Entrainment of Heated Water Surface Jets Heinz G. Stefan, L. M. Bergstedt, Edward Mrosla, 1975

EXPERIMENTAL STUDY OF MULTI-COMPONENT COAXIAL-FLOW JETS IN SHORT CHAMBERS BRUCE V. JOHNSON, 1968 FLUID MECHANICS EXPERIMENTS WERE PERFORMED TO OBTAIN INFORMATION APPLICABLE TO AN OPEN-CYCLE, COAXIAL-FLOW, GASEOUS NUCLEAR ROCKET ENGINE. IN THIS ENGINE CONCEPT, GASEOUS NUCLEAR FUEL AND A SURROUNDING STREAM OF SEEDED HYDROGEN PROPELLANT PASS COAXIALLY THROUGH A REACTOR CHAMBER. THE FLOW WAS SIMULATED IN THE PRESENT EXPERIMENTS BY MULTI-COMPONENT, CONSTANT-TEMPERATURE, COAXIAL-FLOW JETS IN SHORT CHAMBERS. THE FLOW WAS STUDIED USING FLOW VISUALIZATION TECHNIQUES AND CONCENTRATION MEASUREMENTS.

E REGATIVELY BUOYANT JETS IN A CROSS FLOW JERRY LEE ANDERSON, FRANK L. PARKER, BARRY A. BENEDICT, 1973 NEGATIVELY BUOYANT JETS, OR SINKING JETS, CAN BE OBSERVED IN MANY PROBLEMS OF POLLUTANT DISCHARGE. ANY CHEMICAL WASTE THAT IS HEAVIER THAN THE RECEIVING WATER INTO WHICH IT IS DISCHARGED MAY ACT AS A NEGATIVELY BUOYANT JET. IN ADDITION, WHEN WATER IS TAKEN FROM THE HYPOLIMNION OF A DEEP LAKE OR RESERVOIR AND USED AS COOLING WATER, THE TEMPERATURE, AND CONSEQUENTLY, THE DISCHARGE MAY BEHAVE LIKE A NEGATIVELY BUOYANT JET. TWO EXISTING JET DIFFUSION MODELS HAVE BEEN UTILIZED TO PREDICT THE TRAJECTORY AND DILUTION OF A POSITIVELY BUOYANT JET, OR A RISING JET, AND HAVE BEEN MODIFIED TO ACCOUNT FOR THE SINKING EFFECT. TWENTY-FOUR EXPERIMENTAL INVESTIGATIONS WERE CONDUCTED INVOLVING DIFFERENT COMBINATIONS OF DENSIMETRIC FROUDE NUMBER, VELOCITY RATIOS, AND INITIAL ANGLE OF DISCHARGE. SALT WAS USED AS THE TRACER, YIELDING A FLUID THAT WAS DENSER THAN THE AMBIENT RECEIVING WATER AND FACILITATED MEASURING CONCENTRATION PROFILES OF THE JET PLUME. THE COEFFICIENT OF ENTRAINMENT, THE MAJOR MECHANISM OF DILUTION, WAS DETERMINED AS A FUNCTION OF THE DENSIMETRIC FROUDE NUMBER, VELOCITY RATIO, AND INITIAL ANGLE OF DISCHARGE. THE REDUCTED DRAG COEFFICIENT WAS CHOSEN AS ZERO FOR BOTH MODELS SINCE ANY OTHER VALUE WOULD PREDICT A TRAJECTORY WHOSE RISE WOULD BE LESS THAN EXPERIMENTALLY OBSERVED. FOR ALL ANGLES OF DISCHARGE THE ENTRAINMENT COEFFICIENT INCREASED WITH A DECREASE IN THE VELOCITY RATIO AND WITH AN INCREASE IN DENSIMETRIC FROUDE NUMBER. ADDITIONALLY, THERE WAS A MARKED DECREASE IN THE ENTRAINMNET COEFFICIENT WITH A DECREASE IN THE INITIAL ANGLE OF DISCHARGE.--PAGE II.

EPARATED FLOWS AND JETS VICTOR V. KOZLOV, ALEXANDER DOVGAL, 2012-12-06 SEPARATED FLOWS AND JETS ARE CLOSELY LINKED IN A VARIETY OF APPLICATIONS. THEY ARE OF GREAT IMPORTANCE IN VARIOUS FIELDS OF FLUID MECHANICS INCLUDING VEHICLE EFFICIENCY, TECHNICAL BRANCHES CONCERNED WITH GAS/LIQUID FLOWS, ATMOSPHERIC EFFECTS ON VARIOUS CONSTRUCTIONS, ETC. KNOWLEDGE OF THE PHYSICS OF SEPARATED FLOWS AND JETS AND THE DEVELOPMENT OF RELIABLE CONTROL TECHNIQUES ARE PREREQUISITE FOR FUTURE PROGRESS IN THE FIELD. THESE ASPECTS WERE IN FOCUS DURING THE IUTAM-Symposium which was held in Novosibirsk, 9-13 JULY, 1990. This volume contains a selection of papers PRESENTING RECENT RESULTS OF THEORETICAL AND NUMERICAL STUDIES AS WELL AS EXPERIMENTAL WORK ON SEPARATED FLOW'S AND JETS. THE TOPICS INCLUDE SUB- AND SUPERSONIC, LAMINAR AND TURBULENT SEPARATION AS WELL AS ORGANIZED STRUCTURES IN SEPARATED FLOW'S AND JETS. THE READER WILL FIND HERE THE STATE OF THE ART AND MAJOR TRENDS FOR RESEARCH IN THIS FIELD OF AERO-HYDRODYNAMICS.

EFFECT OF JET DENSITY ON INDUCED FLOW AROUND AN AXIALLY SYMMETRIC JET FREDERICK GWYNN BLOTTNER, 1957 THE EFFECTS OF JET DENSITY ON THE INDUCED FLOW AROUND AN AXIALLY SYMMETRIC JET WITHOUT PRESSURE GRADIENTS ARE CONSIDERED. THE INDUCED FLOW VELOCITIES DECREASE AS THE JET EXIT DENSITY DECREASES, AND A SCALING LAW PROPOSED EARLIER IS APPROXIMATELY CORRECT FOR THE TYPE OF JET CONSIDERED.

Departial Characteristics of Water Spray Formed by Two Impinging Jets at Several Jet Velocities in Quiescent Air Hampton H. Foster, Marcus F. Heidmann, 1960 The spatial characteristics of a spray formed by two impinging water jets in Quiescent air were studied over a range of nominal jet velocities of 30 to 74 feet per second. The total included angle between the 0.089-inch jets was 90 deg. The jet velocity, spray velocity, disappearance of the ligaments just before drop formation, mass distribution, and size and position of the largest drops were measured in a circumferential survey around the point of jet impingement. Photographic techniques were used in the evaluations. The distance from the point of jet impingement to ligament breakup into drops was about 4 inches on the spray axis and about 1.3 inches in the radial position +/-90 deg from the axis. The distance tended to increase slightly with increase in jet velocity. The spray velocity varied from about 99 To about 72 percent of the jet velocity for a change in circumferential position from the spray axis to the +/-80 deg positions. The percentages tended to increase slightly with an increase in jet velocity. Fifty percent of the mass was distributed about the spray axis in an included angle of slightly less than 40 deg. The effect of jet velocity was small. The largest observed drops (2260-micron or 0.090-in. diam.) were found on and about the spray axis. The size of the largest drops decreased for an increase in radial angular position, being about 1860 microns (0.074 in.) at the +/-90 deg positions. The largest drops sizes tended to decrease for an increase in jet velocity, although the velocity effect was small. A drop-size distribution analysis indicated a mass mean drop size equal to 54 percent of an extrapolated maximum drop size.

Receedings of the 5th International Conference on Jets, Wakes and Separated Flows (ICJWSF2015) Antonio Segalini,2016-07-18 This volume collects various contributions from the 5th International Conference on Jets, Wakes and Separated Flows (ICJWSF2015) that took place in Stockholm during June 2015. Researchers from all around the world presented their latest results concerning fundamental and applied aspects of fluid dynamics. With its general character, the conference embraced many aspects of fluid dynamics, such as shear flows, multiphase flows and vortex flows, for instance. The structure of the present book reflects the variety of topics treated within the conference i.e. Jets, Wakes, Separated flows, Vehicle aerodynamics, Wall-bounded and confined flows, Noise, Turbomachinery flows, Multiphase and reacting flows, Vortex dynamics, Energy-related flows and a section dedicated to Numerical analyses.

**BYNTHETIC JETS** KAMRAN MOHSENI, RAJAT MITTAL, 2014-09-17 COMPILES INFORMATION FROM A MULTITUDE OF SOURCESSYNTHETIC JETS HAVE BEEN USED IN NUMEROUS APPLICATIONS, AND ARE PART OF AN EMERGENT FIELD. ACCUMULATING INFORMATION FROM HUNDREDS OF JOURNAL ARTICLES AND CONFERENCE PAPERS, SYNTHETIC JETS: FUNDAMENTALS AND APPLICATIONS BRINGS TOGETHER IN ONE BOOK THE FUNDAMENTALS AND APPLICATIONS OF FLUIDIC ACTUATORS.

EVELD OF FLOW ABOUT A JET AND EFFECT OF JETS ON STABILITY OF JET-PROPELLED AIRPLANES LANGLEY AERONAUTICAL LABORATORY, 2021-09-09 THIS WORK HAS BEEN SELECTED BY SCHOLARS AS BEING CULTURALLY IMPORTANT AND IS PART OF THE KNOWLEDGE BASE OF CIVILIZATION AS WE KNOW IT. THIS WORK IS IN THE PUBLIC DOMAIN IN THE UNITED STATES OF AMERICA, AND POSSIBLY OTHER NATIONS. WITHIN THE UNITED STATES, YOU MAY FREELY COPY AND DISTRIBUTE THIS WORK, AS NO ENTITY (INDIVIDUAL OR CORPORATE) HAS A COPYRIGHT ON THE BODY OF THE WORK. SCHOLARS BELIEVE, AND WE CONCUR, THAT THIS WORK IS IMPORTANT ENOUGH TO BE PRESERVED, REPRODUCED, AND MADE GENERALLY AVAILABLE TO THE PUBLIC. TO ENSURE A QUALITY READING EXPERIENCE, THIS WORK HAS BEEN PROOFREAD AND REPUBLISHED USING A FORMAT THAT SEAMLESSLY BLENDS THE ORIGINAL GRAPHICAL ELEMENTS WITH TEXT IN AN EASY-TO-READ TYPEFACE. WE APPRECIATE YOUR SUPPORT OF THE PRESERVATION PROCESS, AND THANK YOU FOR BEING AN IMPORTANT PART OF KEEPING THIS KNOWLEDGE ALIVE AND RELEVANT.

The Flow Development and Heat Transfer Characteristics of Plane Turbulent Impinging Jets John Joseph Schauer, 1963

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