

Fluid Flow Measuring Devices used in an Inertial Measurement Unit Based on Different Flow Measurement Sensors.

Kumaraswamy K.L., T. Krishna Rao, Praveen Math.

Abstract: The current work is focused on flow measuring devices which are based on sensors. Precise measurement of flow rate of fluids is established for a vital condition for quality analysis of various industrial applications. Measurement of a large mass fluid movement is called as flow rate measurement. Flow measurement are wide applications and every places its features are unique in engineering requirements and limitations. Fluid flow meters are the devices that are employed to enumerate the movement of fluids through a pipes, it is mentioned as flow rate. In the present research paper, different devices used to Fluid flow Measurement, Sensors, principle and operation, also benefits of using sensors based on Inertial Measurement Unit, which will be involved in evaluation of Flow Parameter. Fluid flow measurement will be comprise the ability to transduce the fluid flow rate into movement of an arm which can be acquired by the inertial measurement devices. Inertial measurement unit are known for its capacity to acquire the acceleration in 3 dimensions and this phenomenon will be utilized in the proposed research paper is to obtain the positional coordinates of the inertial measurement unit by a specific signal processing technique.

Keywords: Sensor, Measuring Devices, Fluid Flow

1. INTRODUCTION

Accuracy flow meters are used to get precise in monitoring or flow control measurements. The progressive industrial field needed precise calculation of quantity, they are named as precision servo-valve expansion for the petroleum, and aerospace industry. And also importantly an application to determine the water flow to a domestic supply system, may only necessitate a measurement accuracy of 10% to 25%. The flow meters are used in the industrial applications are listed as follows. Obstruction type, Inferential, Electromagnetic, Positive-displacement flow meters, Fluid dynamic or Vortex shedding, Anemometer, Ultrasonic, Mass flow meter.

Obstruction type Flow meters

Obstruction or Head type flowmeters are of two types they are differential pressure type and variable area type. Orifice meter, venturi meter, Pitot tube come under the first type, while Rota meter is come under in the second type.

Inferential flow meters rate through calculating one or more dynamic properties of the moving gas stream. A serious factor in the use of inferential flow meters is to realize their comparison to misrepresentations in the gas flow through the meter.

Electromagnetic flow meters

This type of electromagnetic flow meters are applying to notice the flow by using Faraday's Law of induction. Inside of this flow meter there is an electromagnetic coil that creates a magnetic field, and conductors that reluctance electromotive force.

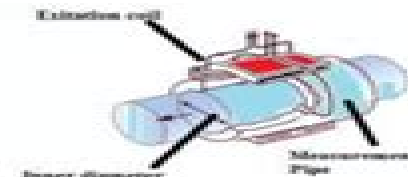


Figure 1: Electromagnetic flow meters

Positive-displacement flow meters

This type of flow meters are require, when fluid is to be mechanically interrupt modules in the meter in direction to require flow measurement. These flow meters are applied to identify the volumetric flow rate of a moving fluid or the gas by distribution of the media into static, metered volumes. A basic similarity would be form a bucket below a tap, considerable it to a set level, then quickly replacing it with another bucket and timing the amount at which the buckets are filled with suitable pressure and temperature benefits and same the mass flow rate can be accurately determined.

Vortex flow meters or Dynamic flow meters

This category of flow meters are operating under the principle of vortex shedding and in case of oscillating vortices arise when a fluid such as water flow past a bluff body, and the occurrence that the vortices are shed depending on the scope and shape of the selected body.

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Practical Use Of Theory In Fluid Flow Bk 1 Inertial Flows

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The Practical Use of Theory in Fluid Flow Book 1 Stuart Winston Churchill, 1988-01-20 Viscous Flows Howard Brenner, 2013-10-22 Representing a unique approach to the study of fluid flows Viscous Flows demonstrates the utility of theoretical concepts and solutions for interpreting and predicting fluid flow in practical applications By critically comparing all relevant classes of theoretical solutions with experimental data and or general numerical solutions it focuses on the range of validity of theoretical expressions rather than on their intrinsic character This book features extensive use of dimensional analysis on both models and variables and extensive development of theoretically based correlating equations The range of applicability of most theoretical solutions is shown to be quite limited however in combination they are demonstrated to be more reliable than purely empirical expressions particularly in novel applications The Practical Use of Theory in Fluid Flow; Book I: Inertial Flows SW. Churchill, 1980 *Dust Explosion Dynamics* Russell A. Ogle, 2016-09-10 Dust Explosion Dynamics focuses on the combustion science that governs the behavior of the three primary hazards of combustible dust dust explosions flash fires and smoldering It explores the use of fundamental principles to evaluate the magnitude of combustible dust hazards in a variety of settings Models are developed to describe dust combustion phenomena using the principles of thermodynamics transport phenomena and chemical kinetics Simple tractable models are described first and compared with experimental data followed by more sophisticated models to help with future challenges Dr Ogle introduces the reader to just enough combustion science so that they may read interpret and use the scientific literature published on combustible dusts This introductory text is intended to be a practical guide to the application of combustible dust models suitable for both students and experienced engineers It will help you to describe the dynamics of explosions and fires involving dust and evaluate their consequences which in turn will help you prevent damage to property injury and loss of life from combustible dust accidents Demonstrates how the fundamental principles of combustion science can be applied to understand the ignition propagation and extinction of dust explosions Explores fundamental concepts through model building and comparisons with empirical data Provides detailed examples to give a thorough insight into the hazards of combustible dust as well as an introduction to relevant scientific literature Encyclopedia of Fluid Mechanics: Aerodynamics and compressible flows, 1989 Handbook of Fluids in Motion Nicholas P. Cheremisinoff, Ramesh Gupta, 1983 **Prevention and Control of Accidental Releases of Hazardous Gases** Vasilis M. Fthenakis, 1993-08-30 Today s complex industrial plants can pose many risks of fire explosions and other hazardous incidents if proper safety mechanisms are not in place Of particular concern are accidental gaseous emissions that jeopardize the health of workers and the facility itself This guide explains the latest engineering and administrative options available for avoiding and controlling accidents including how to set up reliable systems for preventing and mitigating accidental releases as well as how to evaluate the performance of these systems

Theory and Applications of Viscous Fluid Flows Radyadour Kh. Zeytounian, 2013-06-29 This book is the natural

sequel to the study of nonviscous fluid flows presented in our recent book entitled *Theory and Applications of Nonviscous Fluid Flows* and published in 2002 by the Physics Editorial Department of Springer Verlag ISBN 3 540 41412 6 Springer Verlag Berlin Heidelberg New York The physical concept of viscosity for so called real fluids is associated both with incompressible and compressible fluids Consequently we have with a vast field of theoretical study and applications from which any subsection could have itself provided an area for a single book It was however decided to attempt a global study so that each chapter serves as an introduction to more specialized study and the book as a whole presents a necessary broad foundation for further study in depth Consequently this volume contains many more pages than my preceding book devoted to nonviscous fluid flows and a large number 80 of figures There are three main models for the study of viscous fluid flows First the model linked with viscous incompressible fluid flows the so called dynamic Navier model governing linearly viscous divergenceless and homogeneous fluid flows The second is the so called Navier Stokes model NS which is linked to compressible linearly viscous and isentropic equations for a polytropic viscous gas The third is the so called Navier Stokes Fourier model NSF that governs the motion of a compressible linearly viscous heat conducting gas

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