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Fluid Mechanics: Fundamentals and Applications Third Edition Yunus A. Çengel & John M. Cimbala McGraw-Hill, 2013 CHAPTER 1

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Covers the basic principles and equations of fluid mechanics in the context of several real-world engineering examples. This book helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, and by supplying figures, numerous photographs and visual aids to reinforce the physics.

Covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples. This title helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, using figures, numerous photographs and visual aids to reinforce the physics.

Lower level, but with the same "traditonal" every day examples that students identify with and that makes Cimbala/Cengel's approach unique. "Essentials of Fluid Mechanics: Fundamentals and Applications" is an abridged version of a more comprehensive text by the same authors, "Fluid Mechanics: Fundamentals and Applications" (McGraw-Hill 2006). The text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering applications.

This book covers topics on engineering science, technology and applications of the classification of particles in liquids suspensions in hydrocyclones. It is divided into 12 chapters starting with the introduction of the hydrocyclone to the mining industry and its several applications of classification, followed by the fundamentals of classification. A special chapter on the fundamentals of sedimentation as the mechanism of the hydrocyclone classification is given. The authors also cover the fundamentals hydrodynamics of solid – fluid interaction with application to the fluids and suspensions flow of in circular pipelines and discusses the flow pattern in hydrocyclones from a fluid dynamics point of view. The physical design, the empirical, phenomenological and numerical hydrocyclone models are presented. The two last chapters deal with the applications of hydrocyclones system design and instrumentation study cases of application in hydrocyclones to the mining industry. Several parts of this book are the result of the work of their research and professional groups from the university and industry.

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