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OLEG ZIKANOV, PHD, is a Professor of Mechanical Engineering at the University of Michigan-Dearborn, MI, USA. His teaching activities are in the area of thermal-fluid sciences with focus on CFD, fluid dynamics, and energy technologies. He is an active researcher in the field of computational analysis of fluid flow phenomena.

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Zikanov, Oleg. Essential computational fluid dynamics / Oleg Zikanov. p. cm. Includes bibliographical references and index. ISBN 978-0-470-42329-5 (cloth) 1. Fluid dynamics--Mathematics. I. Title. QA911.Z55 2010 532 .0501515-dc22 2009042596 ISBN: 978-0-470-42329-5 Printed in the United States of America 10987654321

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The answers to the problems are available in Solutions Manual for Computational Techniques for Fluid Dynamics by K. Srinivas and C. A. J. Fletcher, published by Springer-Verlag, Heidelberg, 1991. The computer programs have also been reviewed and tidied up. These are available on an IBM compatible floppy disc direct from the author.

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Figure 1 describes a generic computational domain in which two rigid bodies interact with the fluid flow. In this example, the torque exerted by the fluid stress vector (λ) sets the rigid bodies in rotational motion about their pivots (x_c). We also assume that the pivots are stationary during the simulation of the fluid-structure interaction to describe the two-dimensional motion of ...

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