



# Water Hammer and Mass Oscillation (WHAMO) 3.0 User's Manual

Robert Fitzgerald and Yehia L. Wan Elwanani

Fluid distribution systems and hydropower plants can be severely damaged by water hammer, a localized steam, bang, or shudder caused by a sudden change in fluid pressure within the system. Water hammer can be mitigated by designing and operating these systems to minimize sudden changes in water velocity, which is at the root of water hammer problems. WHAMO 3.0, a modeling and simulation application for desktop computers, was specifically developed for this purpose. WHAMO provides dynamic simulation of fluid distribution systems and hydropower plants. It calculates the time-varying flow and head in networks comprised of pipes, valves, pumps, tanks, and turbines/generators. WHAMO Version 3.0 is a major upgrade that implements a graphical user interface for operation under Microsoft Windows 95. This report gives procedures and examples for the use of the WHAMO program, and includes a complete command reference plus documentation of the algorithms upon which WHAMO is based.



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# Whamo Software

**David Kirk**



## Whamo Software:

*Water Hammer and Mass Oscillation (WHAMO) 3.0 User's Manual* Robert Fitzgerald, 1998 Fluid distribution systems and hydropower plants can be severely damaged by water hammer a forceful slam bang or shudder caused by a sudden change in fluid pressure within the system Water hammer can be mitigated by designing and operating these systems to minimize sudden changes in water velocity which lie at the root of water hammer problems WHAMO 3 0 a modeling and simulation application for desktop computers was specifically developed for this purpose WHAMO provides dynamic simulation of fluid distribution Systems and hydropower plants It calculates the time varying flow and head in networks comprised of pipes valves pumps tanks and turbomachines WHAMO Version 3 0 is a major upgrade that implements a graphical user interface for operation under Microsoft Windows 95 This report gives procedures and examples for the use of the WHAMO program and includes a complete command reference plus documentation of the algorithms upon which WHAMO is based *New Technologies, Development and Application VI* Isak Karabegovic, Ahmed Kovačević, Sadko Mandzuka, 2023-05-29 This book features papers focusing on the implementation of new and future technologies which were presented at the International Conference on New Technologies Development and Application held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on 22 24 June 2023 It covers a wide range of future technologies and technical disciplines including complex systems such as Industry 4 0 patents in industry 4 0 robotics mechatronics systems automation manufacturing cyber physical and autonomous systems sensors networks control energy and renewable energy sources automotive and biological systems vehicular networking and connected vehicles effectiveness and logistics systems smart grids nonlinear systems power social and economic systems education and IoT This book is oriented towards Fourth Industrial Revolution Industry 4 0 which implementation will improve many aspects of human life in all segments and lead to changes in business paradigms and production models Further new business methods are emerging transforming production systems transport delivery and consumption which need to be monitored and implemented by every company involved in the global market *Annual Report FY ... of the Secretary of the Army on Civil Works Activities* United States. Army. Corps of Engineers, 1995 *Softalk for the IBM Personal Computer* ,1983 Classroom Connect Newsletter ,1996 **Brands and Their Companies** ,2007 Companies and Their Brands ,2005 Informationweek ,1999-09 **AV Market Place** Information Today Inc, 2010 Brands and Their Companies Christine A. Kesler, Jennifer L. Carman, 1998 Engineering Design Graphics Journal ,2001 *Trade Names Dictionary* Donna J. Wood, 1988 A complete listing of product trade names with a brief description of the product name of the distributing company and a status and directory code *Great Buy\$ from the Underground Shopper* Sue Goldstein, 1991 Athletic Journal ,1986 *Media Review Digest* C. Edward Wall, 2006 *The Advertising Red Books* ,2010 *Applied Mechanics Reviews* ,2005 **Forbes** ,2002 Lloyd's Maritime and Commercial Law Quarterly ,2006 **AV Market Place** Information Today, Incorporated, 2003 Providing unmatched access to the AV industry and such

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