



# Computerized Hydraulic Component Analysis for System Design

**Learn** the futuristic approach to component modeling necessary for computerized system design.

**Explore** performance characteristics for the selection of practically all hydraulic components.

**Investigate** with realistic examples of model applications that have been solved and are graphically presented.

**Experience** a 21st century approach to learning through vivid graphics and the virtual design laboratory.

## This course is designed for

Design Engineers, Engineering Managers, Component Developers, System Designers, Application Engineers, Sales Engineers, Technical Specialists, Consultants, Technical Educators, and any technical person who wants to enhance their design skills.

**Are you an experienced engineer needing to increase your knowledge base with computerized design tools?**

**Are you experienced with computer design techniques needing to expand your understanding of the basic concepts of design engineering?**

**This course is designed to meet your needs.**

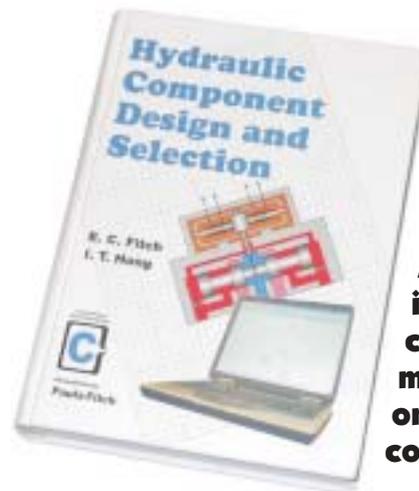


## As an attendee you will receive

- A copy of the acclaimed book by E. C. Fitch and I. T. Hong entitled *Hydraulic Component Design and Selection* (see the complete Table of Contents and example pages available on our website)
- A complimentary six-month lease of the full-function version of the HyPneu V9 Standard software.
- A lunch valued at \$20 each day of the course

## Topics that will be explored:

- Assess the performance of various component design configurations through computerized methods
- Develop and specify component models for system design and analysis
- Basic analytical laws and relationships that describe hydraulic behavior
- Innovative modeling techniques for hydraulic components and how to extend them to obtain customized designs
- Cut metal with confidence through virtual reality methods involving modeling and performance simulation
- Get a hammerlock on the cushioning and structural analysis of hydraulic actuators
- In-depth analytical treatment of pump and accumulator design and applications
- Refreshingly new approach to traditional hydraulic valve technology
- The secrets of cartridge valve technology
- The "ins and outs" of selecting all types of hydraulic conduits
- Valuable perception of sealing mechanics
- Hands-on approach to learning the latest computer simulation technology



**An incomparable course text makes this a one-of-a-kind course.**



# BarDyne, Inc.

[www.BarDyne.com](http://www.BarDyne.com)

5111 North Perkins Road  
Stillwater, OK 74075  
phone (405) 743-4337  
(800) 701-4337  
fax (405) 743-2012

## A Circle of Knowledge

Among our many resources is a valuable research archive that extends over 50 years, a vast variety of technical advisors in the industry, and an intimate understanding of standard engineering practices. This knowledge base provides the foundation for the numerous books published by BarDyne, Inc. Please visit our website for more information--[www.BarDyne.com](http://www.BarDyne.com).



## Dates and Location

Stillwater, Oklahoma

- December 4-5, 2007

## Course Registration

To register for a course, please complete the registration form and return it by mail or fax. We will happily accept a company check, purchase order, Visa, MasterCard, or American Express for the cost of the course. All checks and purchase orders must be received before the course.

If for some reason you cannot attend, you may cancel your registration at any time or you may send a substitute. If you cancel less than 7 days before the course, there will be a \$50 cancellation fee. If you cancel more than 7 days before the course, your entire payment will be refunded, or your invoice canceled. In addition, if you cannot attend, you may request that your payment be applied to a future course—and if requested, the course material will be sent to you.

## In-house Courses

BarDyne also offers customized in-house courses. Course content can be adapted for each presentation to match your company needs, industry, schedule, and budget. Courses can be designed from the material in any of our books including Hydraulic Component Design and Selection, Hydraulic System Modeling and Simulation, Hydraulic System Design for Service Assurance, Fluid Contamination Control, and Proactive Maintenance for Mechanical Systems.

## 1.4 CEU Credits

BarDyne will present to each attendee a special Certificate of Achievement at the completion of the course which will indicate the number of Continuing Education Units (CEU) awarded for the class. One CEU is awarded for each ten contact hours of participation.

## Registration Form

- Yes** Please register me for the **Computerized Hydraulic Component Analysis for System Design** course. The registration fee for this course is \$995 per person or \$895 per person for groups of three or more.

December 4-5, 2007

- \$50 Early Bird Discount**

Available to registrations received two or more weeks prior to published course date and paid prior to the commencement of the course.

- Already have a copy of the course textbook?**

If you bring your book to the seminar, you may deduct \$250 from the price of the seminar.

- Are you a student or a professor at an academic institution?**

If so, you are eligible for a 50% discount (no other discounts would apply)

## Names of Attendees

1. Mr./Ms. \_\_\_\_\_  
Title \_\_\_\_\_
2. Mr./Ms. \_\_\_\_\_  
Title \_\_\_\_\_
3. Mr./Ms. \_\_\_\_\_  
Title \_\_\_\_\_

## Company Information

Organization \_\_\_\_\_  
Address \_\_\_\_\_  
Mail Stop \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_  
Email address \_\_\_\_\_

## Payment Information

- Check payable to BarDyne, Inc. is enclosed.  
 Purchase Order number \_\_\_\_\_ is attached.  
 Charge to  Visa  Mastercard  American Express  
Card number \_\_\_\_\_ Exp Date \_\_\_\_\_  
Signature \_\_\_\_\_

## Register by

**Phone**  
(405) 743-4337

**FAX**  
(405) 743-2012

**Mail**  
BarDyne, Inc.  
5111 N. Perkins Rd.  
Stillwater, OK 74075

**E-Mail**  
HyPneu @  
BarDyne.com

- Can't attend but want to receive future mailings?** Just check this box and return the form to us (or Email us) and we'll add your name(s) to our company's exclusive mailing list. You'll receive announcements of future courses and software updates.

- Please check this box if you would like information about the **HyPneu®** and **HyPneu Magi** software.

Still need more information?

Visit [www.BarDyne.com](http://www.BarDyne.com) anytime.

- See an unabridged table of contents of the course text and download sample pages.
- Read more complete biographies of the course presenters.
- Get complete information about other courses offered.
- Learn more about the **HyPneu®** and **HyPneu Magi** software.