

UPCOMING FEATURES

JUNE 2011 | AD CLOSE: MAY 6, 2011



FEATURE REPORTS

Understanding Fouling in Compact High-Efficiency, Heat Exchangers

Summary: This month's feature report will describe the basic types of fouling, parameters that influence fouling and problems associated with selecting too high of a fouling factor. Design factors, mitigation and monitoring will also be discussed.

Related equipment and services: Heat exchangers (plate and frame, welded-plate block, spiral, shell-in-tube, and more); heat-transfer design software

Understanding Flowmeters

Summary: One of the most critical measurements in the chemical processing industries (CPI) is rate of flow. Flow metering technologies fall into four classifications: velocity, inferential, positive displacement and mass. This article summarizes the considerations in selecting and applying these flowmeters, and provides examples of the kinds of flowmeters in each category.

Related equipment and services: All types of devices used to measure flow including: electromagnetic, vortex, thermal mass, turbine, Coriolis and ultrasonic flowmeters, orifice plates, Venturi meters, pitot tubes and rotameters

EUCIIS

FOCUS Seals and Gaskets

Summary: A collection of short descriptions of various products and equipment related to seals and gaskets in the chemical process industries.

Submissions should be sent to associate editor Scott Jenkins (sjenkins@che.com).

Related equipment and services: O-rings, turbomachinery shaft seals, pressure seals, specialty polymer materials and elastomers with sealing applications

NEWSFRONT

Information Resources for Chemical Engineers

Summary: This article will explore current trends in information sources for chemical engineers, and in how chemical engineers are searching and accessing information.

Related equipment and services: Chemical information websites, chemical database technology, library-related services, chemical engineering book publishers

Distillation trays and packing

Summary: This month's equipment newsfront will discuss the latest in trays and packing for distillation columns.

Editorial contributions should be sent to contributing editor Joy LePree (jlepree@che.com).

Related equipment and services: Distillation columns, trays, packing and other column inserts, simulation software for distillation

FRACTIONATION COLUMN

Summary: This monthly column in CE is written by the technical director at Fractionation Research Inc., a consortium of end-users, engineering companies and distillation equipment providers that pool budgets on distillation research.

Related equipment and services: Distillation towers, trays and packings, tower scanning equipment and services

SOLIDS PROCESSING Milling and Grinding

Summary: This article will sumr

Summary: This article will summarize ten common misconceptions that often lead to problems in milling and grinding operations.

Related equipment and services: Mills, grinders and related particle-sizing equipment

CHE.COM



UPCOMING FEATURES

JUNE 2011 | AD CLOSE: MAY 6, 2011



FACTS AT YOUR FINGERTIPS

Pumps

Summary: This one-page reference sheet will cover calculations related to the flow profile of piston-type reciprocating pumps.

Related equipment and services: Reciprocating pumps, compressors, piston pumps, pump machinery

ENVIRONMENTAL MANAGER Industrial Control Cyber-Security: The Basics

Summary: Securing control systems in CPI facilities is gaining attention as threats become more sophisticated and overall plant security is in the spotlight. Threats can come from a wide variety of sources, and a basic understanding of cyber security can help engineers protect their control systems. This article describes basic concepts such as "defense in depth" and discusses emerging practices in this field.

Related equipment and services: All types of software and hardware used to secure industrial control systems. All types of devices used to secure the physical plant as well

LOOK FOR THESE ARTICLES COMING IN THE JULY ISSUE:

Feature Reports

Equipment News Roundup

Crystallization

Hazardous Wastes

Materials of Construction

Facts at your Fingertips

Equipment Focus

Gas-Liquid Mixing

Valves & Actuators

ARE YOU READY?

THE NEW CHEMICAL ENGINEERING WEBSITE IS LAUNCHING IN LATE APRIL.

VISIT CHE.COM AND CHECK OUT OUR NEW FEATURES!