ZTP Thermal & Power

Comparison of High-Precision Fiber-Coated Spiral Tubes

Comparison of High-Precision Fiber-Coated Spiral Tubes

High Purity Fused Silica Tubes for Specialty Fibers

We use proprietary processes that allow the production of fused silica tubes without the use of forming tools. These processes yield tubes of excellent purity and high geometrical precision.

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High-sensitivity fiber temperature and pressure sensor based on fabry

Examples include coating the surface of tapered fibers with polydimethylsiloxane , applying UV glue on the surface of fine-core fibers , and plating gold film on Bragg fiber gratings

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Heat Transfer Simulation and Structural Optimization of

The spiral fin-and-tube heat exchanger is a widely used heat transfer device in heating and cooling applications, and its performance is influenced by

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High Aspect Ratio Deep Spiral Tube Electrochemical

However, until now few papers are concerned with high aspect ratio deep spiral tube electrochemical machining technology about cathode design, especially in the electrochemical machining machine

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High-precision Spiral Positioning Control of a Piezoelectric Tube

Abstract--This paper considers a high-speed spiral scanning method using an atomic

force microscope (AFM). In it, spirals are generated by applying single-frequency cosine and sine waves of

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Spiral Wound Tubes

Spiral wound tubing are precision products used in various thermal and electrical insulation applications or to ensure a higher mechanical resistance avoiding any

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Microsoft Word

Abstract: The fractionation efficiency of hollow fiber membranes (HFM) for milk protein fractiona-tion was compared to ceramic tubular membranes (CTM) and spiral wound membranes (SWM). HFM

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Utilized Distributed Optical Fiber Sensor with Spiral-Serpentine

Hence, the spiral-serpentine distributed optical fiber sensor (DOFS) layout is presented to realize in-situ full-range temperature measurement. Unlike conventional contact-based sensors, DOFS offers high

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Twisted fiber microfluidics: a cutting-edge approach to 3D spiral devices

We developed a rapid and efficient prototyping process, called the mini-rTDP, to manufacture 3D spiral fiber-based micro fluidic devices with several key advantages.

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Utilized Distributed Optical Fiber Sensor with Spiral-Serpentine

Hence, the spiral-serpentine distributed optical fiber sensor (DOFS) layout is presented to realize in-situ full-range temperature measurement. Unlike conventional contact-based sensors,

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Spiral Fin Tubes: Boost Heat Transfer Efficiency

This construction drastically increases the external surface area of the tube compared to a plain, smooth tube of the same diameter. The choice of materials for both the tube and the fin is critical, often

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High purity fused silica tubes for optical fiber production High Purity

These processes yield tubes of excellent purity and high geometrical performance, as well as extremely low hydroxyl (OH) content. Trace impurities are below the detection limit of ICP-MS.

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An improved analytical model for spiral tube forming process and

In this paper, an improved analytical model is presented to reveal the forming mechanism of the spiral tube taking various processing parameters into account and verified by the

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Simulation of Optical Performance for a Solar Cavity Receiver

Besides, the optical performance of four different receiver shapes were also compared. The results show that it is not proper to approximate the inner wall of the receivers as the outer surface of the spiral

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Membrane module types: Hollow fiber vs. spiral-wound vs. tubular

Understanding the differences between hollow fiber, spiral-wound, and tubular membrane modules is essential for optimizing filtration processes across various industries.

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Improved spiral tube assembly for high-speed counter-current

The performance of this spiral tube assembly was tested in separations of dipeptides and proteins with suitable polar two-phase solvent systems. The results revealed that the present system

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High Aspect Ratio Deep Spiral Tube Electrochemical

Finally, through the L9 (34) orthogonal array method to carry out our high aspect ratio deep spiral tube electrochemical machining experiment, we

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Spatial spiral tube multi-roller bending: Accurate axial prediction

To improve forming accuracy, this study proposes a novel AWPSO-FECAM-LSTM framework that predicts the axis coordinates of the SSTs formed with MRB.

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Achieve High-Precision Fabrication with Fiber Laser

Fiber laser tube cutting machine is revolutionizing the way different industries approach the cutting and shaping of material. It is a highly developed

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An improved analytical model for spiral tube forming process and

In this paper, an improved analytical model is presented to reveal the forming mechanism of the spiral tube taking various processing parameters into account and verified by the FE simulations and four

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Ultrasensitive temperature sensor based on a urethane acrylate-coated

We propose and experimentally demonstrate an ultra-high sensitivity fiber-optic sensor to measure temperature changes in order to establish a high-precision temperature model in the bio

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High-precision spiral positioning control of a

This paper considers a high-speed spiral scanning method using an atomic force microscope (AFM). In it, spirals are generated by applying single

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Spiral Tube Assembly for High-Speed Countercurrent

Optimal elution modes were determined for four typical two-phase solvent systems each with different physical parameters to achieve the best peak

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High Purity Fused Silica Tubes for Specialty Fiber Production

Tubes with these improved geometrical characteristics are indicated as "HP" for high precision tubes.

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COMPARISON OF AIR-SIDE PERFORMANCE

In addition, it can be noted that crimped spiral fin-and-tube heat exchanger has given

higher j -Colburn factor than L-footed spiral fin and plate fin.

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Comparative Assessment of Tubular Ceramic, Spiral

The fractionation efficiency of hollow fiber membranes (HFM) for milk protein fractionation was compared to ceramic tubular membranes (CTM) and

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Performance comparison of inline and staggered integrally-molded

The first investigation shows the effect of the fin serration, where a comparison between performances of finned tubes with and without fin serration is presented.

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Comparison in Partition Efficiency of Protein Separation

High-speed countercurrent chromatography with a spiral tube assembly can retain a satisfactory amount of stationary phase of polymer phase systems

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Comparative analysis of convective heat transfer in

Thisresearchexplorestheconvectiveheattransferperformanceofthreeconfigurations: a conventional spiral tube, a Spiral Flow Reverser (SFR),

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High Frequency Spiral Crimped Wound Finned Tubes-Xinbaohong

The production of spiral wound finned tubes demands precision engineering and advanced manufacturing techniques. Leading manufacturers, such as Chanute Manufacturing Co., utilize high

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