

ردیف

عنوان نشریه

دوره انتشار

2021

1.

Chemical Engineering

- Revamps and Retrofits: A Path to Evergreen Facilities
- Unlocking Hydraulic Limits in a Revamp
- Taking a Holistic Approach to Column Internals
- New catalyst technology for methanol synthesis boosts production and extends lifetimes
- Critical Components in Regenerative Thermal Oxidizers: High-Cycle Valves  
Gear Pump Basics
- The versatile nature of gear-pump technology allows operators to handle
- Pump Seals to Manage Water: Paying attention to the seal design used in centrifugal pumps
- Critical Components in Regenerative Thermal Oxidizers: High-Cycle Valves
- When designing a regenerative thermal oxidizer, engineers should not overlook...

ماهنامه



December

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2.	<p><b><u>Hydrocarbon Engineering</u></b></p> <ul style="list-style-type: none"> <li>• <b>Russia looks to the future</b> Ekatrina Kalineko and Stefan Chapman, Euro Petroleum Consultants (EPC), explore the energy transition and sustainability challenges for the Russian downstream sector.</li> <li>• <b>Separating sulfur</b> David Jackson, Merichem Process Technologies, USA, explores H2S removal with liquid redox processes.</li> <li>• <b>Finding flexibility: part two</b> In the concluding part of this article, Brandon Forbes and DJ Cipriano, Ametek CSI, and Marco van Son, Worley Comprimo, discuss the design and three years of operation results of the first commercial installation of a new degassing system.</li> <li>• <b>Controlling the temperature</b> Markus Wolf and Theo Anderbrügge, OGE, alongside Alexander Derevyagin, Gleb Derevyagin, Paul Lyon and Maria Chwal, Vympel, examine how to establish best practices for hydrocarbon condensation temperature control.</li> <li>• <b>Compressor Q&amp;A</b> Hydrocarbon Engineering talks to a number of leading experts in compressor technology about efficiency, equipment reliability, safety and the environment, digitalisation, and life after the COVID-19 pandemic.</li> <li>• <b>The rise of larger valves</b> Michael Lemeshev, MOGAS Industries Inc., USA, looks at the trend for larger metal-seated valves in severe service applications, and the challenges that this presents.</li> </ul>	ماهنامه	 <p><b>December</b></p>

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	<ul style="list-style-type: none"> <li>• Future-proof technology Tajia Hämäläinen, Neles, Finland, outlines how to achieve versatility and sustainability through modularity.</li> <li>• Dig a little deeper into data Tong Zou and Drew Troyer, T. A. Cook, question whether mean time between repair (MTBR) is adequate for defining pump reliability.</li> <li>• Condensers vs heat exchangers Alicia Johnson, Graham Corp., USA, highlights the strengths and weaknesses of traditional straight tube designs vs coiled tube designs in both condensers and heat exchangers.</li> <li>• Accelerating electrification Tim Bruewer, Watlow, USA, outlines how switching to electric process heaters can help companies in the energy sector take another step towards reducing their overall carbon footprint.</li> <li>• Copper corrosion protection Jim Green, SUEZ – Water Technologies &amp; Solutions, USA, explores advances in copper corrosion protection technology in critical heat exchangers.</li> </ul>		

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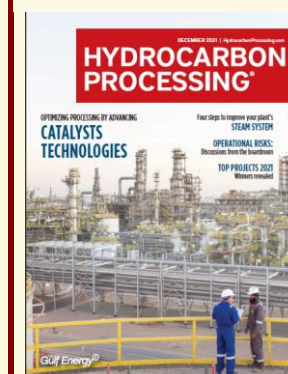
2021

3.

**Hydrocarbon Processing**

- Choosing an FCCU CO promoter is no longer driven by NOx emissions  
Establish the maximum allowable pressure drop across the catalyst bed structure in a hydrocracker
- The phosphorus trap is renewed  
Using ANN modeling to predict the melt flow index in real time  
Impact plant performance by improving the steam system  
Design and scale-up of gaseous Group A fluid bed systems for chemical synthesis
- Consequence modeling and risk analysis for safeguarding against jet fires  
Safety and environmental benefits of reliability engineering  
Stack gas scrubbing to meet IMO's 0.5% sulfur bunkering requirement  
Assessment of independent protection layers in an LOPA study—Part 2  
How one analyzer technology can improve a semi-regenerative catalytic reforming process
- Mitigation actions to prevent vibration during factory tests of SAGD boiler feedwater pumps
- Process Controls, Instrumentation and Automation: Improved methods for trace element analysis of challenging petrochemical samples
- Corrosion: Maintaining profitability with opportunity crudes while mitigating naphthenic acid corrosion

ماهنامه



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4.	<p style="text-align: center;"><b>پشم انداز نفت</b></p> <ul style="list-style-type: none"> <li>● جایگاه ایران در بیضی استراتژیک انرژی جهان</li> <li>● نقد فنی قراردادهای IPC</li> <li>● آیا تعریف شرکت های E&amp; P با واقعیات کنونی حاکم بر صنایع بالادستی نفت ایران تناسب دارد</li> <li>● پیشنهادهای شانزده گانه برای تسهیل موانع قراردادهای شرکت های اکتشاف و تولید ایرانی</li> <li>● روایت فنی بومی سازی Swell packer</li> <li>● نوآوری و کاهش هزینه و زمان در بومی سازی بتن الیافی</li> <li>● پوشش های سه لایه پلی اتیلنی راهکاری جدید در حل معضلات لوله های فولادی</li> <li>● بومی سازی تجهیزات قابل انعطاف کنترل شن از چاه اشتباهات پر هزینه با اندکی تدبیر قابل رفع است</li> <li>● بررسی سیاست ها و قوانین موثر بر سهم ساخت داخل در صنعت نفت ایران</li> </ul>	ماهانامه	 <p style="text-align: center;"><b>شماره ۴۵</b></p>