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CHEMIE TECHNIK in May:

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- Bulk material and mixing technology
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CHEMIE TECHNIK

PLANT ENGINEERING, PLANT DESIGN

Efficient construction site management in plant projects

Everyone is talking about digitisation, but very traditional levers exist to achieve efficient management on construction sites in plant engineering. This article shows what these are and how the worst mistakes can be avoided.

Realising major projects in half the time

If plant engineering companies manage to significantly reduce the project time, this creates clear added value for both the client and the contractor. The “Radical Lead Time Reduction” method aims precisely at this and promises 40 to 50 % shorter lead times.

Large-scale projects in the chemical industry

We report on current large-scale projects and plans of the chemical industry worldwide.

1 Portrait of BASF's large-scale acetylene plant project

The BASF chemicals group is currently investing a three-digit million amount in a new acetylene plant at its Ludwigshafen

site in Germany. Unlike the Bayer TDI Mega-Project, BASF Engineering bears overall responsibility for the project. This article describes how the project is organised.

DOSING TECHNOLOGY

Current trends in solids dosing technology

High precision at high throughput, feeding of continuous processes – and possibly even under containment: dosing technology for powders and granulates must meet a number of challenges.

PACKAGING, LABELLING

2 Dust-free packaging of chemicals in paper bags

Cleanliness, safety at work and cost efficiency – paper bags offer a number of advantages when it comes to dust-free filling and packaging of powdery chemicals. The packaging can be individually tailored to the requirements of the respective product, the machine technology and user-specific requirements.

1



Image: BASF

2



Image: Haver & Boecker



PROCESS IT – SPECIAL DIGITISATION

3 Set-up of factory-internal 5G networks

The new 5G mobile communications standard is raising hopes not only among smartphone owners. In addition to the auctioning of nationwide licenses, the German Federal Network Agency is also awarding frequencies for local 5G networks in industry on request. Especially large companies such as BASF and Siemens wish to use these frequencies to promote the digitisation of their plants with internal factory networks.

Ethernet for field instrumentation in process plants

With the advanced physical layer, the providers of process automation are now taking Ethernet technology into the field of process plants. We report on the status of this project.

BULK MATERIAL AND MIXING TECHNOLOGY

Efficient generation of pneumatic feed air

There is a big difference in quality between compressed air and feed air: for pneumatic feeding, the requirements are

usually considerably higher. We explain in our cover story where the differences lie and what is required to generate feed air.

Highlights of Powtech 2019

At this year's Powtech, numerous new solutions for the processing of powders and bulk materials were once again on show. In our detailed follow-up report we present the most significant novelties.

SEPARATION TECHNOLOGY, FILTERS

Filtration technology 4.0

Condition monitoring and timely maintenance are essential in filtration technology. With the right sensor technology and a suitable controller – such as the prototype presented – these processes can be digitised and networked.



Image: chris – Fotolia.com