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Load analysis and air-conditioning system design for underground commercial buildings

YAN Wei-lin, YE Yu-cheng
(Hangzhou Energy Monitoring Center, Hangzhou 310004, China)

Abstract: With the development of underground commercial buildings, the suitable air-conditioning system can create comfortable environment for people. On the basis of the load analysis of underground commercial buildings, the suitable air conditioning system is designed in the paper. The design can achieve the purpose of comfort and energy-saving.

Key words: underground commercial buildings; load; air-conditioning system; energy-saving; design

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Coal low temperature drying and upgrading technology research and application

ZHENG Ru, WU Wei-wei
(Shandong Tianyuan Energy-saving Environmental Engineering Co. Ltd., Xintai 271221, China)

Abstract: In order to improve the profits of the coal mine, to reduce production costs, improving quality of low temperature dryingslime coal washing system. The results show that the slurry is dried in a low temperature, not only improve the coal combustionvalue, put an end to the coal slurry pat phenomenon. At the same time, improving efficiency achieves the purpose of environmental protection.

Key words: slime drying; upgrading; energy conservation and environment protection

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Discussion on the energy efficiency and safety control of ammonium nitrate solution container

HU Zeng-bin, YAO Jian
(Yunnan Institute of Special Equipment Inspection Test, Kunming 650028, China)

Abstract: By presenting and analyzing the application of ANS in energy saving and environement-friendly production process, and considering the fact that ANS is categorized into dangerous chemicals that are highly flammable and combustable, this article thoroughly illustrated potential safety weak points that hide in the production, transportation and usage of ANS. We also proposed specific safety rules for regulating the design, production, safety inspection of ANS tank container, which will more or less benefit personnels of this field while they are designing, producing and mananging the tank container.

Key words: Ammonium Nitrate Solution; tank container; energy efficiency; quality control

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Automatic control and self-regulation system of adding pressure station with the mixed coal gas based on PLC

LU He-chuan, SUN Yan-jie, XIE Zhi-ying
(Tang shan steel weier Automation Co. Ltd., Tangshan 063000, China)

Abstract: In order to solve the difficulty that the mixed gas's pressure and calorific values fluctuate greatly in process control, an automatic control method of adjustment heat value and pressure based on the PLC was proposed. And the way how to realize was introduced in detail. The system has got a good effect in the application. The fluctuations in heat value and pressure of mixed gas can be kept at a low level, and has strong anti-disturbance ability against the external interference.

Key words: adding pressure with the mixed coal gas; calorific value adjustment; pressure regulation; control model; PLC

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Application of multifunctional pump control valve in the pump station

FENG De-hua
(Xuanhua iron and steel Co. power plant, Zhangjiakou 075100, China)

Abstract: The sturcture of multifunctional water pum control valve and the using feature are proposed. The advantage of multifunctional water pump control valve is put forward. The result shows that multifunctional water pum control valve is wrothy of promoting.

Key words: multifunctional pump control valve; water hammer; pump station

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Exploration and practice on new way of sphalt waste-water reuse

ZHANG Zhi-yong, ZHANG Hai-ying, LIU Shu-wen, et al
(Anyang Iron and Steel Stoup Co. Ltd., Anyang 455004, China)

Abstract: Asphalt warehouse for coking plant wastewater into the sewage treatment system can not be analyzed, the transformation program. Through the addition of filtration and set the buffer pool elevation openings, install filtration screens, and use of the original collection pond will be sent back to the asphalt cooling pond wastewater reuse, reduce the burden of biological treatment to reduce coking wastewater emissions, reduce environmental pollution.

Key words: wastewater; make use of again; filter mesh

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The efficiency improvemens reform of unit one cooling tower spray device in Huaneng Chaohu power plant

ZHANG Shi-hong, SUN Li-chun, FAN Yan
(Huaneng power generation Co. Ltd., Chaohu 238015, China)

Abstract: Based on the theory of improving the condenser vacuum by lowering the temperature of the cooling tower water, by the the comparative study of splashing device of XPH swirling type and JNX-031 rotating type in water spray, combined with the application effect of JNX-031 type rotating spray device in the unit one, we found it can make the condenser vacuum of unit one to increase 0.78 kPa before reform, the temperature of cooling tower water to decrease 1.51 ℃, can save more than 3750 tons standard coal each year. The results show that there are popularization and application value of JNX-031 type rotating spray device in cooling tower of the large sets.

Key words: cooling tower; spitting device; reform; benefst analysis

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