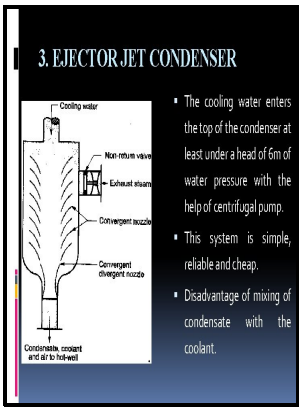
Enhanced tubes for steam condensers - volume I, summary of condensation and fouling; volume II, detailed study of steam

U.S. Dept. of Energy - Chemical Treatment Requirements for Condensate Systems



Description: -
-Enhanced tubes for steam condensers - volume I, summary of condensation and fouling; volume II, detailed study of steam
-Enhanced tubes for steam condensers - volume I, summary of condensation and fouling; volume II, detailed study of steam
Notes: Contains Volume I and Volume II.
This edition was published in 1988

Filesize: 8.73 MB

Tags: #US6386272B1

Experimental investigation on steam/nitrogen condensation characteristics inside horizontal enhanced condensation channels

The condenser is then operated for a short period of time.

US7640969B2

After exiting the evaporator, the refrigerant proceeds to a compressor and back to the condenser, repeating the refrigeration cycle. The method of claim 20, wherein the steps of determining a first and second temperature of the first heat exchange fluid each comprise sensing the temperature of the first heat exchange fluid at a second axial position and calculating the temperature of the first heat exchange fluid in the tube at the first axial position based on the sensed temperature at the second axial position. Using appropriate correlations and theoretical models, we have designed condensation and water side surface geometries that will provide high performance and be cleanable using sponge ball cleaning.

Improving heat transfer in reboilers and condensers

The predetermined fouling value will depend on the specific application. Note the differences between the response of a typical fossil and nuclear plant. Acknowledgments This research work was supported by the Natural Science Foundation of Inner Mongolia Autonomous Region Grant no.

Enhanced tubes for electric utility steam condensers (Conference)

Alternatively or additionally, the weld seam region may be ground so that an already existing layer, in particular coating, is removed again within the framework of such a grinding process. The condenser used for the example calculations is the ANO-1 condenser, but configured with 23,150, 28. In a single-phase heat exchanger, the wiring techniques for the temperature sensor for the outside of the tube may need to be made more robust due to the increased flow velocity of the fluid on the outside of the tubes.

Enhanced tubes for steam condensers. Volume 1, Summary of condensation and fouling; Volume 2, Detailed study of steam condensation (Technical Report)

Since the only function of neutralizing amines is to neutralize carbonic acid in condensate, they have no utility in preventing oxygen corrosion. In addition, these data provide information on overall condenser performance which may be influenced by a number of parameters which are independent of water side fouling. It is feasible to design a two pass condenser with vertical up-flow in the first pass and down-flow in the second, provided that it can be guaranteed that the vapor velocity at the top of the first pass is sufficient to carry the condensate upwards, but this is not recommended.

Beware of condenser fouling (Journal Article)

System and method for monitoring the performance of a heat exchanger 2004-07-22 2006-09-19 Abb Inc. The amount of increase in water temperature varies depending on the coolant flow rate, the size of the tubes, the total heat load, and other heat transfer characteristics of the condenser. This must be considered in the overall corrosion control program.

Condensation

Between 1990 and 1992, additional research under sponsorship of the Electric Power Research Institute and the U.

Related Books

- Chemical industry directory and whos who.
- Benito Viñes s.j. - estudio biográfico
- Pravo sobstvennosti grazhdan na zhilye pomeshcheniia - monografiia
- Librarian
- Sowjetischen Städte - Grundlagen und Ergebnisse stadttypologischer Forschung.