More TECHNICAL BRIEFS

these to us are the most promis... closed cycle gas turbine is not ... versal power plant but it can do ... better in some fields than other ... of plants, and only time will ... and other thermal power plants ... duced since the war to find their ... place in the power generating ... *ASME Paper No. 52-A-137.*

Rotary Regenerative Air Preheat... Gas Turbines. *By A T Bowles ... Hryniszak, C A Parsons & Co.*

The advantages of the regen... type heat exchanger are that ... draulic diameters can be read... tained, and that when the ... counterflow arrangement is ... matrix is self-cleaning to some ... particularly during that part ... operating cycle when high velocit... pressure differences are experi... Against this must be taken the ... of providing an efficient seal b... the air and gas flows.

In comparison, if flame trap ... ers employed in both, the recup... can be designed to have hydrau... ameters of the same order as th... the regenerator. The matrix, how... is not self cleaning, and thus con... ous outside provision must be ma... keep it in working order. This ... sarily involves an equivalent power ... but one which can justifiably be ... pared with the auxiliary power ... of the regenerator. The separati... the gas and air flows, however, can ... made in the matrix itself, which com... cates the problem of cheap and ... manufacture.

The inter-relation of these ... tages and disadvantages especially ... concerning the problem of sealing ... regenerator, and the effective cost ... solution, will be the main criteri... the assessment of the relative merit... the two types of heat exchanger. *ASME Paper No. 52-A-74.*

Miscellaneous

Design and Calibration of A ... Cavitation Laboratory. *By Hei... mann and R S Sproule.*

The Dominion Engineering Wo... Ltd, new cavitation laboratory descri... in this paper is used for testing a ... range of hydraulic turbine model ... signs, from francis types with spe... speeds as low as 18 under heads as ... as 80 ft, to propeller types with spe... speeds as high as 180, under heads d... to 25 ft. The paper covers many spe... features provided in the laboratory ... insure accuracy of test results and ... reduce operating costs and include...