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CALCULATIONS DESCRIPTION OF THE APPARATUS; MEASUREMENTS; PROPERTIES OF FREON-12; RESULTS; CONDENSATION OF SATURATED VAPOUR; CONDENSATION OF SUPERHEATED VAPOUR; DISCUSSION; CONCLUSION; ACKNOWLEDGEMENT; NOMENCLATURE; REFERENCES; CHAPTER 5. POST-BURNOUT HEAT TRANSFER IN HIGH PRESSURE STEAM-WATER MIXTURES IN A TUBE WITH COSINE HEAT FLUX DISTRIBUTION; INTRODUCTION; EXPERIMENTAL; BASIC RESULTS; TRANSIENT FEATURES OF DRYOUT; COMPARISON OF PRESENT AVERAGE BURNOUT HEAT FLUX DATA WITH PREVIOUS DATA FOR UNIFORMLY HEATED TUBES; PREDICTION OF BURNOUT POSITION AND HEAT FLUX FOR COSINE HEAT FLUX DISTRIBUTION  
POST-BURNOUT HEAT TRANSFER REWETTING DOWNSTREAM OF DRYOUT; CONCLUSIONS; REFERENCES; CHAPTER 6. PREDICTION OF TIME-DEPENDENT DIABATIC TWO-PHASE WATER FLOWS; INTRODUCTION; FORMULATION; CONSERVATION LAWS; VAPOUR GENERATION FUNCTION; WALL SHEAR-STRESS FUNCTION; DISTRIBUTION PARAMETERS; METHOD OF SOLUTION; COMPARISON OF PREDICTIONS WITH EXPERIMENTAL DATA STEADY FLOW VOID AND PRESSURE DROP; FLOW OSCILLATIONS IN FIXED PRESSURE-DROP CHANNELS; SUMMARY; ACKNOWLEDGEMENT; NOMENCLATURE; REFERENCES; CHAPTER 7. CHF DATA FROM FREON-11 FLOW FOR SCALING CHF IN WATER; INTRODUCTION; TEST PROGRAM PURPOSE; TEST SECTION DESCRIPTION

Sommario/riassunto

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