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| Nota di contenuto | Introduction -- Experimental Facility for Two-Phase Flow Measurement -- Properties of Refrigerant, Oil and Their Mixture -- Two-Phase Flow in Accumulator -- Two-Phase Flow in Compressor -- Two-Phase Flow in Adiabatic Capillary Tube for R-134a Cycles -- Two-Phase Flow in Non-Adiabatic Capillary Tube for CO2 Cycles -- Two-Phase Flow in Internal Heat Exchangers -- Two-Phase Flow and System Performance -- Appendix -- Index |
| Sommario/riassunto | This critical volume presents recent developments from the authors' extensive research programs on two-phase flow in refrigeration systems. This book covers advanced mass and heat transfer and vapor compression refrigeration systems and shows how the performance of an automotive air-conditioning system is affected through results obtained experimentally and theoretically, specifically with consideration of two-phase flow and oil concentration. This book also: Illustrates criticality of two-phase flow and oil concentration of refrigeration systems to performance of refrigeration systems. Presents new understanding of two-phase flow aimed at engineers designing efficient refrigeration systems. Provides experimentally and theoretically derived results on performance of automotive air- |

conditioning systems. Includes abundant field and test data from commercial-scale refrigeration components
