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| 1. Record Nr.           | UNISA996354430903316                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Titolo                  | Funf Jahre flachendeckende Bildungsstandarduberprufungen in<br>Osterreich : Vertiefende Analysen zum Zyklus 2012 bis 2016<br>[[electronic resource]] / Ann Cathrice George, Claudia Schreiner,<br>Christian Wiesner, Martin Pointinger, Katrin Pacher                                                                                                                                                                                                                                                                                                                                                                                |
| Pubbl/distr/stampa      | Munster, : Waxmann, 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ISBN                    | 3-8309-8925-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Edizione                | [1st, New ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Descrizione fisica      | 1 online resource (260 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Collana                 | Kompetenzmessungen im osterreichischen Schulsystem: Analysen,<br>Methoden & Perspektiven ; 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Soggetti                | Schul- und Unterrichtsentwicklung<br>Standarduberprufungen<br>Klein- und Kleinstschulen<br>Integrationsklassen<br>Schulerkompetenzen<br>Schulereinstellungen<br>Noten<br>standardisierte Kompetenzmessungen<br>BIFIE<br>Schulpadagogik                                                                                                                                                                                                                                                                                                                                                                                               |
| Lingua di pubblicazione | Tedesco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sommario/riassunto      | Mit den in Osterreich als Vollerhebungen durchgefuehrten<br>Bildungsstandarduberprufungen werden in periodischen Abstanden<br>Kompetenzen gemessen, welche osterreichische Schuler/innen in der<br>Regel am Ende eines Schulabschnitts (d. h. am Ende der vierten und der<br>achten Schulstufe) beherrschen sollten. Die Kompetenzen wurden aus<br>den Lehrplanen der jeweiligen Stufen und der jeweiligen Facher (d. h.<br>Deutsch, Mathematik und Englisch) abgeleitet und sind in den<br>osterreichischen Bildungsstandards festgelegt. Der erste Zyklus<br>beinhaltet die Bildungsstandarduberprufungen in Mathematik fur die 8. |

Schulstufe 2012, in Mathematik für die 4. Schulstufe 2013, in Englisch für die 8. Schulstufe 2013, in Deutsch für die 4. Schulstufe 2015 und in Deutsch für die 8. Schulstufe 2016. Das Kernziel der Bildungsstandardüberprüfungen ist es, Daten zu generieren, zu analysieren und aufzuarbeiten, die zu einer gezielten Entwicklung des Schulsystems, der Schulstandorte und des Unterrichts genutzt werden. Der Sammelband "Fünf Jahre flächendeckende Bildungsstandardüberprüfungen in Österreich: vertiefende Analysen zum Zyklus 2012 bis 2016" greift einige bildungspolitisch relevante Themen auf und präsentiert diese erstmals in der Zusammenschau über den gesamten Zyklus.

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| 2. Record Nr.           | UNINA9910830207603321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Autore                  | Olivier Gerard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Titolo                  | Thermal energy management in vehicles / / Gerard Olivier, Vincent Lemort, Georges de Pelsemaeker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Pubbl/distr/stampa      | Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2023]<br>©2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISBN                    | 1-119-25174-5<br>1-119-25176-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Descrizione fisica      | 1 online resource (355 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Collana                 | Automotive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disciplina              | 629.256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Automobiles - Motors - Cooling systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | Cover -- Title Page -- Copyright -- Contents -- Acknowledgments -- Nomenclature List of Abbreviations -- About the Companion Website -- Introduction -- Chapter 1 Fundamentals -- 1.1 Introduction -- 1.2 Fundamental Definitions in Thermodynamics -- 1.2.1 System, Surroundings, and Universe -- 1.2.2 Properties -- 1.2.3 Process -- 1.2.4 Energy -- 1.2.5 Heat -- 1.2.6 Work -- 1.2.6.1 Mechanical Forms of Work -- 1.2.6.2 Nonmechanical Forms of Work -- 1.2.7 Enthalpy -- 1.3 Fluids -- 1.3.1 Pure and PseudoPure Fluids -- 1.3.2 Liquid-Vapor Phase Change for a Pure or PseudoPure Fluid -- 1.3.3 Computing the |

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1.3.3.2 The Equations of State Relating P, T, and v (Relation Between Measurable Properties) -- 1.3.3.3 Computing NonMeasurable Properties (u, h, and s) in General Case of Real Pure Fluids -- 1.3.3.4 Computing Nonmeasurable Properties (u, h, and s) in the Specific Case of Ideal Fluids -- 1.3.4 Fluids Commonly Used in Automotive Applications -- 1.3.4.1 Oil -- 1.3.4.2 Coolant -- 1.3.4.3 Refrigerant -- 1.3.4.4 Humid Air -- 1.4 Heat Transfers -- 1.4.1 Conduction -- 1.4.2 Convection -- 1.4.2.1 Forced Convection -- 1.4.2.2 Natural Convection -- 1.4.2.3 Mixed Forced and Natural Convection -- 1.4.2.4 Sensible and Latent Heat Transfer by Convection -- 1.4.2.5 Convection Heat Transfer Rates -- 1.4.2.6 Laminar and Turbulent Regimes -- 1.4.2.7 Convection Heat Transfer Coefficients -- 1.4.3 Radiation -- 1.4.3.1 Emitted Radiation -- 1.4.3.2 Incident Radiation -- 1.4.3.3 Kirchhoff's Law and the Gray Surfaces -- 1.4.3.4 Radiation Exchange Between Surfaces -- 1.5 First Law of Thermodynamics -- 1.5.1 Closed System -- 1.5.2 Open System -- 1.5.2.1 Mass Balance -- 1.5.2.2 Energy Balance -- 1.6 Second Law of Thermodynamics -- 1.6.1 Concepts and Definitions -- 1.6.1.1 Heat Reservoir, Source, and Sink. 1.6.1.2 Heat Engines -- 1.6.1.3 Refrigerators and Heat Pumps -- 1.6.2 Kelvin Planck and Clausius Statements of the Second Law -- 1.6.3 Reversible Processes -- 1.6.4 Ideal Heat Engines, Refrigerators, and Heat Pumps -- 1.6.5 Entropy -- 1.7 Flows in Hydraulic Circuits -- 1.8 Heat Exchangers -- 1.8.1 Classification of Heat Exchangers -- 1.8.1.1 Classification According to the Mechanism of Energy Transfer -- 1.8.1.2 Classification According to the Phases of Both Fluids -- 1.8.1.3 Classification According to the Flow Arrangement -- 1.8.1.4 Classification According to the Pass Arrangement -- 1.8.1.5 Classification According to the Type of Construction -- 1.8.2 Energy Balance Across a Heat Exchanger -- 1.8.3 Performance -- 1.8.3.1 Thermal Performance -- 1.8.3.2 Hydraulic Performance -- References -- Chapter 2 Internal Combustion Engine Thermal Management -- 2.1 Introduction -- 2.2 Fundamentals of Internal Combustion Engines -- 2.2.1 Characteristics of the Internal Combustion Engines -- 2.2.2 Four Stroke Engine Cycle -- 2.2.3 Combustion Process in the Engines -- 2.2.3.1 Combustion -- 2.2.3.2 SparkIgnition Engine (SI Engine) -- 2.2.3.3 CompressionIgnition Engine (CI Engine) -- 2.2.4 Pollutant Emissions -- 2.2.4.1 Driving Cycles and Pollutant Emissions -- 2.2.4.2 Pollutants -- 2.2.4.3 Tradeoff and Technological Levers -- 2.2.5 Energy Analysis -- 2.2.5.1 Energy Conversion Processes in Engines -- 2.2.5.2 Engine Overall Energy Balance -- 2.2.5.3 Engine Overall Energy Performance Indicators -- 2.2.6 Quantification of the Major Heat Transfers in ICEs -- 2.2.6.1 Heat Transfer Between Gases and Engine Walls -- 2.2.6.2 Heat Transfer Between Coolant and Engine Walls -- 2.2.6.3 Overall Heat Transfer Between the Gas and Coolant -- 2.2.6.4 Heat Transfer with the Surroundings -- 2.3 Engine Cooling and Heating -- 2.3.1 Purpose of Engine Cooling and Heating. 2.3.2 Working Principle of Engine Cooling and Heating Systems -- 2.3.3 Circulation of the Coolant through the Engine -- 2.3.4 Radiator -- 2.3.4.1 Purpose of the Radiator -- 2.3.4.2 Technologies of Radiators -- 2.3.4.3 Flow Configurations in Radiators -- 2.3.5 Expansion Tanks -- 2.3.6 Thermostat -- 2.3.6.1 Purpose of the Thermostat -- 2.3.6.2 Working Principle of a Thermostat -- 2.3.6.3 Technologies of Thermostats -- 2.3.7 Heating Systems -- 2.4 Oil Cooling -- 2.4.1 Purpose of Oil Cooling and Heating -- 2.4.2 Working Principle of Oil Cooling and Heating Systems -- 2.4.3 Technologies of Oil Coolers -- 2.4.3.1 AirtoOil Coolers -- 2.4.3.2 CoolanttoOil Coolers -- 2.4.4 Oil Temperature Control -- 2.5 Charge Air Cooling (CAC) -- 2.5.1 Purpose

of Charge Air Cooling and Forced Induction -- 2.5.2 Working Principle and Technologies of Forced Induction -- 2.5.2.1 Turbochargers -- 2.5.2.2 Superchargers -- 2.5.2.3 Electric Superchargers -- 2.5.2.4 Compound Forced Induction -- 2.5.3 Working Principle and Architectures of Charge Air Cooling -- 2.5.3.1 Charge Air Cooling by Air -- 2.5.3.2 Charge Air Cooling by Coolant -- 2.5.3.3 Charge Air Cooling by Refrigerant -- 2.5.4 Technologies of Charge Air Coolers -- 2.5.4.1 AirCooled Charge Air Coolers -- 2.5.4.2 WaterCooled Charge Air Coolers -- 2.6 Exhaust Gas Recirculation (EGR) Cooling -- 2.6.1 Purpose of EGR and EGR Cooling -- 2.6.2 EGR Working Principle -- 2.6.3 Exhaust Gas Recirculation Architectures -- 2.6.3.1 HighPressure EGR -- 2.6.3.2 LowPressure EGR -- 2.6.4 Technologies of Exhaust Gas Recirculation Coolers (EGRC) -- 2.6.4 Additional Data -- 2.6.4 Solution -- 2.7 FrontEnd Module -- 2.7.1 Purpose of the FrontEnd Module -- 2.7.2 Working Principle of the FrontEnd Module -- 2.7.2.1 Heat Exchangers Configuration -- 2.7.2.2 Aeraulics -- 2.7.2 Solution -- 2.7.2 Results. 2.7.3 Technologies of Components in the FrontEnd Module -- 2.7.3.1 Fan System -- 2.7.3.2 Active Grille Shutters -- 2.8 Engine Waste Heat Recovery -- 2.8.1 Exhaust Heat Recovery System (EHRS) -- 2.8.2 (Organic) Rankine Cycle Power Systems -- 2.8.2 Solution -- 2.8.2 Results (for question 1 and 2) -- 2.8.3 Other Investigated Technologies -- References -- Chapter 3 Cabin Climate Control -- 3.1 Introduction -- 3.2 Thermal Comfort -- 3.2.1 Definition of Thermal Comfort -- 3.2.2 Human ThermoPhysiology -- 3.2.2.1 Homeothermy -- 3.2.2.2 Body Energy Balance -- 3.2.2.3 Skin Sensible Losses -- 3.2.2.4 Skin Latent Losses -- 3.2.2.5 Respiratory Losses -- 3.2.2.6 Criteria to Meet to Achieve Thermal Comfort -- 3.2.3 Description of Vehicle Indoor Climate -- 3.2.3.1 Mean Radiant Temperature -- 3.2.3.2 Operative Temperature -- 3.2.3.3 Equivalent Temperature -- 3.2.3.4 Local Equivalent Temperature -- 3.2.3.5 Whole Body Equivalent Temperature -- 3.2.3.6 Control of Vehicle Indoor Climate -- 3.2.3.7 Transient Evolution of the Indoor Climate -- 3.2.3.8 Air Stratification -- 3.2.4 Evaluation of Thermal Comfort -- 3.2.4.1 PMV Approach -- 3.2.4.2 Human Subject Trials -- 3.3 Cabin Thermal Loads -- 3.3.1 Outdoor Climate -- 3.3.1.1 Solar Radiation -- 3.3.1.2 Atmospheric Radiation -- 3.3.2 Energy Transfer Mechanisms Involved in a Vehicle Cabin -- 3.3.3 Heat Transfer Through the Cabin Body -- 3.3.3.1 Heat Transfers at the Cabin Body Outdoor Surface -- 3.3.3.2 Heat Transfer and Storage Through the Cabin Body Materials -- 3.3.3.3 Heat Transfers at the Cabin Body Indoor Surface -- 3.3.3.4 Heat Transfer Through the Cabin Body in the SteadyState Regime -- 3.3.4 Heat Transfer Through the Glazing -- 3.3.4.1 Optical Properties of Glazing -- 3.3.4.2 Advanced Glazing Technologies -- 3.3.5 Ventilation -- 3.3.6 Infiltration -- 3.3.7 Internal Gains -- 3.3.7.1 Occupants. 3.3.7.2 Other Internal Gains -- 3.3.8 Other Energy Transfer Mechanisms -- 3.3.9 Lumped Modeling Approach -- 3.3.9.1 Energy Balance on the Cabin Body -- 3.3.9.2 Energy Balance on the Cabin Glazing -- 3.3.9.3 Energy Balance on the Cabin Internal Masses -- 3.3.9.4 Mass and Energy Balances on the Cabin Air, Water, and CO<sub>2</sub> -- 3.4 Distribution of Thermal Energy Through the Cabin -- 3.4.1 HVAC Unit Components and Working Principle -- 3.4.2 Cabin Air Recirculation -- 3.4.3 HVAC Unit Operating Modes -- 3.4.3.1 Ventilation -- 3.4.3.2 Cooling -- 3.4.3.3 Heating -- 3.4.3.4 Demisting and Defrosting -- 3.4.3.5 Ventilation and Heating -- 3.4.3.6 Temperature and Flow Rate of the Air Flow Pulsed by the HVAC Unit -- 3.4.4 Cabin Air Quality -- 3.5 Production of Cooling Capacity -- 3.5.1 Working Principle of a VaporCompression Refrigerator -- 3.5.1.1

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3.5.9.1 Internal Heat Exchanger with R744.

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| 3. Record Nr.           | UNIORUON00032911                                                         |
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| Pubbl/distr/stampa      | Istanbul, : Turkiye Turing ve Otomobil Kurumu, 1941                      |
| Descrizione fisica      | 25 p. ; 23 cm                                                            |
| Classificazione         | OTT VI                                                                   |
| Soggetti                | Letteratura turca ottomana - Critica                                     |
| Lingua di pubblicazione | Turkish                                                                  |
| Formato                 | Materiale a stampa                                                       |
| Livello bibliografico   | Monografia                                                               |