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Altri autori (Persone)	RatcliffeMartin S ShepherdKeith
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Nota di contenuto	Contents; 1 Introduction; 1.1 Heating:the fundamental building service; 1.2 Low-pressure hot water; 1.3 The need for efficient heating systems; 1.4 Scope of the book; 1.5 Content of the book:an overview; PART A HEAT GENERATION; 2 Boilers and Burners; 2.1 Definition of a boiler; 2.2 Principal functional elements of a boiler; 2.2.1 Gas-fired boilers; 2.2.2 Oil-fired boilers; 2.2.3 Solid fuel boilers; 2.3 The boiler block; 2.3.1 Function of the boiler block; 2.3.2 Configuration and design; 2.3.3 The multi-pass principle; 2.3.4 Water content and temperature differential 2.3.5 Wet-base and dry-base types2.4 The burner; 2.4.1 Function of the burner; 2.4.2 Boiler fuels and the combustion process; 2.4.3 Burner design; 2.4.4 Atmospheric natural gas burners; 2.4.5 Fan-assisted and forced-draught natural gas burners; 2.4.6 Premix natural gas burners; 2.4.7 Other natural gas burners; 2.4.8 Burners for other gases; 2.4.9 Pressure-jet oil burners; 2.4.10 Other atomizing oil burners; 2.4.11 Dual-fuel burners; 2.5 Burner operation and control; 2.5.1 Functions of burner control; 2.5.2 Modes of control for burner output; 2.5.3 On/off

control of burner output

2.5.4 High/low/off control of burner output; 2.5.5 Modulating control of burner output; 2.5.6 Control of burner safety; 2.6 The burner gas line; 2.7 The boiler control system; 2.7.1 Boiler controls and system controls; 2.7.2 Control of the burner; 2.7.3 Boiler safety and limit controls; 2.7.4 Reporting functions: remote monitoring; 2.8 The boiler casing; 3 Types of Boiler and Their Needs; 3.1 Types of boiler; 3.2 Boiler construction materials; 3.2.1 Range of materials; 3.2.2 Cast-iron; 3.2.3 Steel; 3.2.4 Copper and aluminium; 3.3 Methods of construction; 3.3.1 Cast-iron sectional boilers; 3.3.2 Fabricated steel boilers; 3.3.3 Copper boilers; 3.4 Fire-tube and water-tube boilers; 3.5 Modular boiler installations; 3.5.1 Types of modular boiler installation; 3.5.2 Modular boiler systems; 3.5.3 True modular boilers; 3.6 Heating, hot water service and combined applications; 3.7 Condensing operation; 3.7.1 Principles and benefits; 3.7.2 Requirements of condensing operation; 3.7.3 Condensing boilers; 3.7.4 Condensing economisers; 3.8 Boiler efficiency; 3.8.1 Choosing the correct definition; 3.8.2 Basis of the definition; 3.8.3 Gross and net calorific value; 3.8.4 Overall efficiency; 3.8.5 Combustion efficiency; 3.8.6 Seasonal efficiency; 3.9 Carbon intensity; 3.10 The needs of the boiler installation; 3.11 Hydraulic stability; 3.12 Return water temperature; 3.13 Pressure in the boiler circuit; 3.14 Fuel supply; 3.14.1 Natural gas; 3.14.2 LPG; 3.14.3 Oil; 3.15 Ventilation of the boiler plant room; 3.16 Water treatment; 4 Alternative Means of Heat Generation; 4.1 Scope of the alternatives; 4.2 Combined heat and power units; 4.2.1 The concept; 4.2.2 Application to building services; 4.2.3 Principal elements of a small-scale packaged CHP unit; 4.2.4 Typical energy balance for a small-scale packaged CHP unit

Sommario/riassunto

In many climates buildings are unable to provide comfort conditions for year-round occupancy without the benefit of a heating system, and most HVAC engineers will routinely be involved with issues concerning the design, installation and performance of such systems. Furthermore, in temperate climates, heating of buildings accounts for a large slice of annual carbon emissions. The design of heating systems for maximum efficiency and minimum carbon emission is therefore now a matter of prime concern to all HVAC engineers. The book provides an up-to-date review of the design, engineer

2. Record Nr.	UNINA9910825135603321
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Perceptions of Developing Cultural Awareness of First-level High School Arabic Language Learners; CONTENTS; Tables; Figures; Preface; Foreword; Chapter One-Introduction to the Study; Chapter Two-Literature Review; Chapter Three-Methodology; Chapter Four-Results; Chapter Five-Discussion and Recommendations; References; Index
Sommario/riassunto	This book analyzes how Arabic teachers develop the cultural awareness of their high school students. Featuring face-to-face conversations with educators about integrating Arabic culture into the language classroom, this study highlights the complexities that characterize Arabic cultural awareness in a post 9/11 world.