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Autore	Finlayson Clive <1955->
Titolo	Avian survivors : the history and biogeography of Palearctic birds // Clive Finlayson
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Descrizione fisica	1 online resource (321 p.)
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Disciplina	598.17
Soggetti	Birds - Ecology - Palearctic Birds - Geographical distribution Climatic changes - Environmental aspects - Palearctic Electronic books.
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Nota di contenuto	Cover; Contents; Preface; Acknowledgements; 1. Introducing the Tertiary; 2. The changing ecology of the Palearctic in the Pleistocene; 3. Origins of Palearctic birds; 4. Corvoidea - shrikes, crows and orioles; 5. Sylvioidea - hirundines, warblers and larks; 6. Paroidea - tits; 7. Muscicapoidea - chats, thrushes, flycatchers and allies; 8. Passeroidea - sparrows, finches, pipits and buntings; 9. Falcons; 10. Terrestrial non-passerines; 11. Owls; 12. Raptors; 13. Gulls, terns, auks and waders; 14. Divers, tubenoses, and waterbirds; 15. Cranes, rails, bustards and cuckoos 16. Nightjars and swifts 17. Pigeons, sandgrouse, tropicbirds, flamingos and grebes; 18. Geese, swans, ducks and gamebirds; 19. Climate and the history of the birds of the Palearctic; 20. Surviving climate change - characteristics of survivors; 21. The Palearctic avifauna of yesterday, today and tomorrow; Appendix 1. Species covered in this book: bioclimatic and ecological features; Appendix 2. European Pleistocene fossil birds; References; Index

Sommario/riassunto

"Using a fresh approach that classifies birds according to their bioclimatic characteristics, Clive Finlayson views the history and distribution of Palearctic birds from a radical new angle. History and chance events play a central role in a story that has its origins before the asteroid impact that finished off the dinosaurs. In this book, Finlayson shows that the avifauna of the Palearctic long predates the glaciations of the last two million years, and had established itself gradually during the turbulent times of the Miocene and Pliocene, the lifting of Tibet and the drying of the continents having a major influence on these birds. Those that made it to the start of the glaciations were equipped to deal with whatever the climate could throw at them. They were the avian survivors, and they are still here with us today. Packed with figures and with a rich colour section, *Avian Survivors* tells the definitive story of the birds of the Palearctic, across space and time."--Bloomsbury Publishing.

2. Record Nr.	UNISA996210337303316
Autore	Gallagher James E
Titolo	Natural Gas Measurement Handbook [[electronic resource]]
Pubbl/distr/stampa	Burlington, : Elsevier Science, 2013
ISBN	0-12-800000-7 1-60119-624-5
Descrizione fisica	1 online resource (497 p.)
Disciplina	665.74
Soggetti	Gas-meters -- Handbooks, manuals, etc Natural gas -- History Natural gas -- Measurement Natural gas - Measurement Gas-meters Civil & Environmental Engineering Engineering & Applied Sciences Civil Engineering
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Nota di contenuto

Front Cover; Natural Gas Measurement Handbook; Copyright Page; Dedication; Table of Contents; List of Tables; List of Figures; Preface; Symbols; Unit Conversions; CHAPTER ONE. Introduction; 1.1 Transportation System; 1.2 Measurement; 1.3 Fluid Classification, Commercial; 1.4 Material Quality; 1.5 Risk Management; CHAPTER TWO. Composition and Quality; 2.1 Assay; 2.2 Quality Parameters and Tolerances; 2.3 Potential Impacts of Gas Quality; 2.4 Typical Streams; CHAPTER THREE. Physical Properties and Process Conditions; 3.1 Natural Gas; 3.2 Fluid Classification: Technical; 3.3 Phase Envelope 3.4 Fluid Properties3.5 Process (or Operating) Conditions; 3.6 Typical Natural Gas Physical Properties; CHAPTER FOUR. Measurement Concepts; 4.1 Applicable Fluids; 4.2 Base Conditions; 4.3 Flowmeters (or Primary Devices); 4.4 Flowmeter Calibration Concepts; 4.5 Law of Similarity; 4.6 Single-Phase Fluid Flow in Pipes; 4.7 Multiphase Fluid Flow in Pipes; 4.8 Secondary Devices; 4.9 Tertiary Device; 4.10 Uncertainty; 4.11 Total Cost of Measurement; CHAPTER FIVE. Orifice Flowmeter; 5.1 General Principles; 5.2 Mass Flow Equation; 5.3 Artifact Calibration; 5.4 Uncertainty Roadmap 5.5 Sources of Error5.6 Risk Management; CHAPTER SIX. Ultrasonic Flowmeter; 6.1 General Principles; 6.2 Mass Flow Equation; 6.3 Central Facility Calibration; 6.4 In Situ Calibration; 6.5 Uncertainty Roadmap; 6.6 Sources of Error; 6.7 Risk Management; CHAPTER SEVEN. Turbine Flowmeter; 7.1 General Principles; 7.2 Mass Flow Equation; 7.3 Central Facility Calibration; 7.4 In Situ Calibration; 7.5 Uncertainty Roadmap; 7.6 Sources of Error; 7.7 Risk Management; CHAPTER EIGHT. Rotary Displacement Flowmeter; 8.1 General Principles; 8.2 Mass Flow Equation; 8.3 Central Facility Calibration 8.4 In Situ Calibration8.5 Uncertainty Roadmap; 8.6 Sources of Error; 8.7 Risk Management; CHAPTER NINE. Calculations; 9.1 Base Conditions; 9.2 Physical Properties; 9.3 Natural Gas Density; 9.4 GPA 2172 versus A.G.A.8; 9.5 Mass Flow Rate in Pipes; 9.6 Mass Flow Rate for Orifice Flowmeter; 9.7 Mass Flow Rate for Ultrasonic Flowmeter; 9.8 Mass Flow Rate for Turbine Flowmeter; 9.9 Mass Flow Rate for Rotary Displacement Flowmeter; 9.10 Volumetric Flow Rate at Base Conditions; 9.11 Energy Flow Rate at Base Condtions; 9.12 Quantities; CHAPTER TEN. Secondary and Tertiary Devices; 10.1 General 10.2 Differential Pressure (dP)10.3 Static Pressure; 10.4 Temperature; 10.5 Multivariable Transmitter; 10.6 Online Densitometer; 10.7 Moisture Analyzer; 10.8 Online Gas Chromatograph; 10.9 Other Analyzers; 10.10 Flow Computers; 10.11 Gas Sampling Systems; CHAPTER ELEVEN. Electronic Gas Measurement; 11.1 Description of an Electronic Gas Measurement System; 11.2 System Accuracy; 11.3 Definitions; 11.4 Sampling Flow Variables; 11.5 Low Flow Detection; 11.6 Averaging Techniques; 11.7 Compressibility, Density, and Heating Values; 11.8 Hourly and Daily Quantity Calculations; 11.9 Data Availability 11.10 Audit and Reporting Requirements

Sommario/riassunto

This information-packed volume covers all aspects of natural gas measurement.