1. Record Nr. UNINA9910830583603321

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Titolo	Continuous emission monitoring / / James A. Jahnke
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , [2022] ©2022
ISBN	1-119-43402-5 1-119-43400-9 1-119-43399-1
Edizione	[Third edition.]
Descrizione fisica	1 online resource (467 pages)
Disciplina	628.530287
Soggetti	Continuous emission monitoring
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
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Sommario/riassunto

"The new edition of the only single-volume reference on both the regulatory and technical aspects of U.S. and international continuous emission monitoring (CEM) systems Continuous Emission Monitoring presents clear, accurate, and up-to-date information on the technical and regulatory issues that affect the design, application, and certification of CEM systems installed in power plants, cement plants, pulp and paper mills, smelters, and other stationary sources. Written by an international expert in the field, this classic reference guide covers U.S. and international CEM regulatory requirements, analytical techniques, operation and maintenance of CEM instrumentation, and more. The fully revised third edition remains the most comprehensive source of CEM information available, featuring three brand-new chapters on mercury monitoring, the reporting and certification of industrial greenhouse gas emissions, and the instrumentation and methods used to measure air toxic compounds including dioxins, furans, and hydrogen chloride. Thoroughly updated chapters discuss topics such as flow rate monitors, new EPA regulations, instrumentation and calibration techniques, CEM system control and data acquisition, and extractive system design. Providing environmental professionals with the knowledge of CEM systems necessary to address the present-day regulatory environment, Continuous Emission Monitoring: Discusses how CEM systems work, their advantages and limitations, and the regulatory requirements governing their operation Covers both the historical framework and technological basis of current CEM regulatory programs and standards in the United States, Canada, Europe, and Asia Offers practical guidance on sampling system selection, measurement techniques, advanced monitoring approaches, recordkeeping, and quality assurance Provides detailed technical descriptions of the technology necessary for regulatory compliance Includes new orthographic drawings to help instrument technicians and regulators with little technical background to easily understand key topics Continuous Emission Monitoring, Third Edition is an essential resource for professionals responsible for ensuring regulatory compliance, managers and technicians who purchase, operate, and maintain CEM instrumentation, regulatory personnel who write and enforce operating permits, and instructors and students in upper-level environmental engineering programs."--