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Nota di contenuto	ENVIRONMENTAL REGULATORY CALCULATIONS HANDBOOK; CONTENTS; PREFACE; INTRODUCTION; 1 EARLY ENVIRONMENTAL HISTORY; Introduction; The First Humans; The Development of Agriculture; Colonization of the New World; The Industrial Revolution; References; 2 CURRENT ENVIRONMENTAL REGULATORY FRAMEWORK; Introduction; The Regulatory System; Laws and Regulations: The Differences; The Role of the States; Resource Conservation and Recovery Act; Major Toxic Chemical Laws Administered by the USEPA; Legislative Tools for Controlling Water Pollution; The Superfund Amendments and Reauthorization Act of 1986 The Clean Air ActOccupational Safety and Health Act (OSHA); USEPA's Risk Management Program; The Pollution Prevention Act of 1990; References; 3 CLEAN AIR ACT (CAA); Qualitative Problems (LCAA); LCAA.1 Early Legislation; LCAA.2 Recent Key Clean Air Act (CAA)

Regulatory Actions; LCAA.3 Sources of Air Pollution; LCAA.4 Nanotechnology Regulations: Air; LCAA.5 Acronyms; LCAA.6 Environmental Law Enforcement; LCAA.7 Bubble Policy; LCAA.8 National Ambient Air Quality Standard (NAAQS); LCAA.9 Standards for New and Modified Stationary Sources (NSPS); LCAA.10 Major Stationary Sources (40 CFR 52.21)
LCAA.11 Small Sources
LCAA.12 Title V Operating Permits; LCAA.13 Hazardous Air Pollutants (HAPs); LCAA.14 Continuous Monitoring; LCAA.15 Ozone Depleting Substances (ODS) Program; LCAA.16 Identifying Ozone Depleting Substances; LCAA.17 Mechanism of Ozone Destruction; LCAA.18 Estimation of Gaseous Emissions; LCAA.19 Ethylene Oxide Information; LCAA.20 Bulk Gasoline Terminal; LCAA.21 Pipeline Breakout Station; LCAA.22 Definitions of Volatile Organic Compounds; LCAA.23 Industrial Surface Coating; LCAA.24 Surface Coating Emissions; LCAA.25 Emission Factors
LCAA.26 Furniture Maximum Achievable Control Technology (MACT)
LCAA.27 Wood Furniture Manufacturing Operations; LCAA.28 Halogenated Solvent Cleaning Maximum Achievable Control Technology (MACT); LCAA.29 Acid Rain Provisions (CAA, Title IV); LCAA.30 Solvent Selection; LCAA.31 Selecting a Plant Site; Quantitative Problems (TCAA); TCAA.1 Calculations for Standard Volume (40 CFR 50.3); TCAA.2 Stack Velocity; TCAA.3 Check for Emission Standards Compliance; TCAA.4 Cyclone Selection; TCAA.5 Electrostatic Precipitation (ESP) Design Procedure; TCAA.6 Filter Bag Fabric Selection
TCAA.7 Collection Efficiency for Particles Smaller than 1 Micron
TCAA.8 Nanoparticle Behavior; TCAA.9 Design Procedure for an Absorption Column; TCAA.10 Design of a Fixed-Bed Adsorber; TCAA.11 Carbon Monoxide Design Value Calculation; TCAA.12 Calculating Percent Volatile Organic Compounds from Liquid Samples; TCAA.13 NESHAP Compliance Calculation; TCAA.14 Emission Factor Calculation; TCAA.15 Basic Calculations for Volatile Organic Compound (VOC) Coatings; TCAA.16 VOC Transfer Efficiency; TCAA.17 VOC Coating Compliance Determinations; TCAA.18 VOC Surface Coating Equivalency Determination
TCAA.19 Equivalency Calculations for a Can Coating Operation

Sommario/riassunto

Regulatory Calculations Handbook addresses the environmental concerns of individuals by presenting the basic fundamentals of many environmental regulatory topics. Featuring an overview of the history of environmental problems, the current regulatory framework, and problems/solutions of practical problems in the field, this handbook comprehensively brings the potential calculations and information on regulations into one single-source reference. Provides 500 solved problems, which detail how to calculate the amount of pollutant that a facility is letting go into the environment
