1. Record Nr. UNINA9910971208803321

Titolo	Measures of environmental performance and ecosystem condition / / Peter C. Schulze, editor ; National Academy of Engineering
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, c1999
ISBN	9786612081286 9780309175739 0309175739 9781282081284 1282081284 9780309522335 0309522331 9780585058016 0585058016
Edizione	[1st ed.]
Descrizione fisica	1 online resource (312 pages) : illustrations, maps
Altri autori (Persone)	SchulzePeter C
Disciplina	363.7/063
Soggetti	Environmental indicators Environmental management - Evaluation Environmental monitoring - Methodology Nature - Effect of human beings on - Evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Front Matter""; ""Preface""; ""Contents""; ""Overview: Measures of Environmental Performance and Ecosystem Condition""; ""Net Energy Expenditure: A Method for Assessing the Environmental Impact of Technologies""; ""Life-Cycle Analysis: The Role of Evaluation and Strategy""; ""Defining the Environmentally Responsible Facility*""; ""Measuring Pollution-Prevention Performance""; ""Accounting for Natural Resources in Income and Productivity Measurements""; ""Environmental Performance Standards for Farming and Ranching"" ""Use of Materials Balances to Estimate Aggregate Waste Generation in the United States""" "National Material Metrics for Industrial Ecology*""; ""Information for Managers""; ""Environmental Measures: Developing an

	Environmental Decision-Support Structure""; ""A Critique of Effluent Bioassays""; ""Insights from Ambient Toxicity Testing""; ""Measuring Environmental Performance through Comprehensive River Studies""; ""Biological Criteria for Water Resource Management""; ""TVA's Approach to Ecological Health Assessment in Streams and Reservoirs""; ""Biographical Data""; ""Index""
Sommario/riassunto	When Cleveland's Cuyahoga River caught fire in 1969, no environmental measurements were necessary to know the seriousness of the problem. Incidents like the Cuyahoga fire raise an important question: Can catastrophes-in-the-making be detected early enough to be prevented? For those in industry, such disasters point to the need for measures that can improve the environmental performance of processes, products, business practices, and linked industrial systems. In Measures of Environmental Performance and Ecosystem Condition , experts share their insights on environmental metrics. The volume explores the most productive relationship between measures of environmental performance and measures of ecosystem conditions. It reviews current approaches, evaluates structures for business decisionmaking, and includes a matrix for determining the environmental performance of industrial facilities. Case studies include: Development and application of a water-quality rating scheme for streams and reservoirs in the Tennessee Valley. Three years of successful experience with waste metrics at 3M. The book covers the range of environmental performance and condition metrics, from the use of material flow data to monitor environmental performance at the national level to the use of bioassays to measure the toxicity of industrial effluents. This book offers something for everyone--policymakers, executives, engineers, managers, and advocates--with a stake in the measurement of environmental performance and ecological conditions.