

1. Record Nr.	UNINA9910800121103321
Autore	Liu Yan
Titolo	Principles of Environmental Engineering [[electronic resource] /] / edited by Yan Liu, Liang Li
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-16-9431-1
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (529 pages)
Altri autori (Persone)	LiLiang
Disciplina	628
Soggetti	Environmental engineering Biotechnology Bioremediation Refuse and refuse disposal Pollution Water Hydrology Environment Environmental Engineering/Biotechnology Chemical Bioengineering Waste Management/Waste Technology Environmental Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Prolegomenon -- Fluid Flow and Transport Equipment -- Heat Transfer -- Absorption -- Chemical and Biological Reaction Kinetics and Reactor -- Appendix -- Basic Concepts and Terminology -- Symbols and Units.
Sommario/riassunto	This textbook contains the contents coming from hydraulics, hydrodynamics, chemical principles, chemical reaction engineering and bioengineering, which relates closely with fundamental principles in environmental engineering. It mainly covers principles including basic concepts, theories, methods and related equipment in fluid flow and transportation, heat transfer, absorption, chemical and biological reaction kinetics and reactors, as well as their applications in environmental engineering. At same time, the readers learns the basic

viewpoints and methods commonly used in engineering technology, such as balance method, reasonable simplification, dimensional analysis method, boundary layer theory, optimization and mathematical model method. It broadens the student's understanding in solving those problems in environmental engineering, and enhances their awareness of industrialization. This book is the specialized foundation and principles for learning the professional courses of environmental engineering, such as "water pollution control," "air pollution control," "solid waste treatment and disposal" and "ecological restoration engineering", while avoiding the repetition of the contents of those professional books.

---