

<<水回用（上、下册）>>

图书基本信息

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前言

在21世纪之初，面临各种环境问题，人类清醒地认识到要走可持续发展之路。而发展环境教育是解决环境问题和实施可持续发展战略的根本。高等学校的环境教育，是提高新世纪建设者的环境意识，并向社会输送环境保护专门人才的重要途径。

为了反映国外环境类教材的最新内容和编写风格，同时也为了提高学生阅读专业文献和获取信息的能力，我们精选了国外一些优秀的环境类教材，加以影印或翻译，组成大学环境教育丛书。所选教材均在国外被广泛采用，多数已再版，书中不仅介绍了有关概念、原理及技术方法，给出了丰富的数据，也反映了作者不同的学术观点。

我们希望这套丛书的出版能对高等院校师生和广大科技人员有所帮助，并为我国的环境教育事业作出贡献。

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内容概要

本书介绍水再生、循环与回用方面最新的理论和实践，内容涉及公众健康保护、水质标准和法规、先进技术及实施等问题。

本书包括的重要主题如下： 深入讨论了水再生和回用方面的实践应用，包括实际的案例研究；介绍了公众健康以及环境保护标准、法规和风险管理方面目前的问题及最新发展； 全面评述了当前的先进处理技术、新的发展及未来的趋势； 着重强调了工艺的可靠性和多重保障的概念； 介绍了水回用系统中小型和分散处理设施； 介绍了水回用项目开发中的规划和实施问题。

本书可用作环境工程、市政工程等专业高年级本科生和研究生的教材，也是相关领域科技人员的必备案头书。

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Heavy metals Some heavy metals such as cadmium , copper , molybdenum , nickel , and zinc may accumulate in crops to levels that are toxic to consumers of the crops。

Heavy metals in reclaimed water that has received at least secondary treatment are generally within acceptable levels for most uses ; however , if industrial wastewater pretreatment programs are not enforced , certain industrial wastewaters discharged to a municipal wastewater collection system may contribute significant amounts of heavy metals。

Hydrogen ion concentration , pH The pH of wastewater affects disinfection efficiency , coagulation , metal solubility , and alkalinity of soils。

Normal pH range in municipal wastewater is 6。

5 to 8。

5 , but some industrial wastes may have pH levels well outside of this range。

Trace constituents Pharmaceutically active compounds (PhACs) , endocrine disrupting compounds (EDCs) , personal care products , and other trace constituents have been implicated in adverse effects to frogs , fish , and other aquatic animals。

Although a number of trace constituents are removed via conventional treatment , low concentrations of some of them may be present in wastewater effluent。

The health risks associated with low concentrations of many of these compounds are unknown ; however , they may present a health concern if reclaimed water is used for potable purposes or if reclaimed water used for irrigation or other uses makes its way into groundwater or surface supplies。

Disinfection byproducts The reaction of chemical oxidants such as chlorine and ozone with organics in water can create a wide range of disinfection byproducts (DBPs) , some of which may be harmful to human health if ingested over the long term。

The principal DBPs of concern in drinking water are the trihalomethanes , haloacetic acids , bromate , and haloacetonitriles (see Chap。

11) 。

Total dissolved solids , TDS A measure of the total ionic constituents in water。

High TDS concentrations are of concern in a number of reuse applications including agricultural and landscape irrigation , and industrial applications (see Chaps。

17。

18。

and 19) 。

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编辑推荐

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