

Metcalfe And Eddy Ingeniería Aguas Residuales

Tratamiento de aguas residuales Ingeniería de aguas residuales Ingeniería de aguas residuales Ingeniería de las aguas residuales Ingeniería de aguas residuales Ingeniería ambiental: contaminación y tratamientos Ingeniería de aguas residuales Tratamiento de Aguas Residuales para alumnos de Ingeniería Química Ingeniería del medio ambiente Ingeniería de aguas residuales Ingeniería de aguas residuales Principios básicos y cálculos en ingeniería química Ingeniería de aguas residuales Ingeniería de aguas residuales Ingeniería de aguas residuales Ingeniería de aguas residuales Ingeniería sanitaria Ingeniería sanitaria y de aguas residuales Ingeniería sanitaria y ambiental Rubens Sette Ramalho Metcalfe & Eddy Incorporated Wiki Universidad Politécnica de Madrid Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos Metcalfe & Eddy (Empresa comercial) Ramón Sans Fonfría Metcalfe & Eddy (Empresa comercial) ANTONIO JESUS GARCIA JAIMEZ Eliseo P. Vergara George Tchobanoglous Leonard Metcalfe David M. Himmelblau George (Editor) Tchobanoglous Metcalfe & Eddy Metcalfe & Eddy Metcalfe and Eddy (Estados Unidos) George Tchobanoglous George Tchobanoglous Gordon Maskew Fair

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este libro es una introducción al tratamiento de aguas residuales industriales y domésticas dirigida tanto a estudiantes como a licenciados en ingeniería biología química etc interesados en este tema

se ofrece una visión global a todos aquellos productos y procesos que de alguna manera pueden producir contaminación en los suelos aguas y atmósfera se tratan los residuos sólidos por la posibilidad que éstos tienen de producir contaminación en aguas subterráneas y superficiales así como en el aire se diferencian los residuos urbanos de los tóxicos y peligrosos se hace una especial mención a los residuos radioactivos dadas sus especiales características respecto a la contaminación atmosférica se comentan aspectos meteorológicos que influyen de manera importante en la dispersión de los contaminantes se indican los tipos de contaminantes ya sean gaseosos o en forma de partículas haciéndose hincapié en los sistemas de tratamiento así como los procesos industriales más importantes que pueden generar este tipo de contaminantes por las características especiales de los motores de combustión se comentan las emisiones que éstos pueden producir en cuanto a contaminación de aguas se indica el tipo de contaminantes que por vertidos pueden producir algunas industrias así como los principales procesos de depuración y tratamiento a que pueden someterse unas aguas procedentes de un proceso industrial para su eventual reciclaje al proceso industrial o para que su evacuación a las redes de alcantarillado cumpla con las normativas vigentes de vertidos sobre el autor br ramón sans fonfría ingeniero técnico químico ingeniero industrial de la especialidad de técnicas energéticas profesor encargado de la cátedra de química analítica de la euiti de terrassa de la upc y actualmente profesor titular en el departamento de ingeniería química de la upc miembro del consejo social de dicha universidad brbrsu actividad docente se realiza en el campo de la química analítica y su actividad investigadora se desarrolla en el análisis de aguas y suelos colaborando con diversas empresas e

instituciones brbractualmente su campo de investigación se dirige a la determinación de trazas de pesticidas en productos agrícolas aditivos en alimentación así como a la optimización de los enjuagues y reciclaje de las aguas en industrias de acabado de superficies brbr joan de pablo ribas doctor en ciencias químicas por la universidad autónoma de barcelona realizó parte de su tesis doctoral en el royal institute of technology de estocolmo como investigador invitado trabajando sobre el almacenamiento de calor a partir de la utilización de energías alternativas actualmente es profesor titular del departamento de ingeniería química de la universidad politécnica de cataluña desarrollando su actividad investigadora en temas relacionados con el medio ambiente sobre el cual ha publicado diversos artículos científicos en revistas internacionales especializadas brbrÍndice resumido del libro brbrpresentaciónbrintroducciónbrresiduos sólidosbrcontaminación atmosféricabraguas residualesbrtratamiento de aguas residuales

esta obra constituye un compendio técnico y didáctico sobre el tratamiento de aguas residuales orientado a estudiantes del grado de ingeniería química el contenido aborda de forma sistemática los fundamentos procesos y tecnologías implicadas en la depuración de aguas residuales urbanas e industriales conforme a los marcos normativos vigentes tanto nacionales como europeos a lo largo del texto se desarrollan en profundidad los conceptos esenciales de la línea de aguas y la línea de fangos detallando cada una de las etapas del proceso de depuración pretratamiento tratamiento primario tratamiento secundario con especial énfasis en los sistemas de fangos activos y tratamiento terciario así como la gestión y estabilización de los fangos generados asimismo se incluyen criterios de diseño parámetros de operación análisis de rendimientos factores de biodegradabilidad tipos de contaminantes y su relación con las tecnologías más adecuadas para su eliminación todo ello bajo una perspectiva aplicada y con referencias constantes a la normativa de vertido y reutilización la estructura del libro integra esquemas de proceso tablas comparativas casos prácticos y ejemplos de dimensionamiento lo cual facilita el aprendizaje autónomo y la comprensión crítica de los procesos el enfoque combina rigurosidad técnica con aplicación real siendo un recurso útil tanto para la formación académica como para la introducción al ejercicio profesional en el ámbito del tratamiento de

aguas

el objetivo de este manual es analizar las aguas residuales y el diseno de las instalaciones disposicion y reutilizacion

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