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Integrated Solid Waste Management: Engineering Principles And Management Issues



Synopsis

A junior/senior-level introductory text aimed at civil and environmental engineers taking a basic introduction to Solid Waste Management. The text includes the latest 1990-1991 laws and regulations.

Book Information

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Customer Reviews

I purchased this text for an upper-level (500-series) design course covering solid and hazardous waste management. The book is divided into two major parts, with the first 11 chapters providing an overview of waste composition, characteristics, collection, treatment and conversion, and disposal, and the remainder of the book providing more in-depth technical coverage of material recovery and conversion technologies. Overall the book is well-written and maintains a strong narrative throughout, although the homework exercises require assumptions to be made regarding background condition which are not clearly discussed in the text. The single greatest detractor to this volume is its age, as it was first published well before most current student users were born. While the methods, techniques, and formulate utilized for the first part of the text have not changed greatly in the past three decades, statistics have. Information regarding waste generation rates and composition is 20 years old at best, and modern trends, which have changed markedly in the last several years, are omitted entirely. Any instructor utilizing this text should feel compelled to provide students with up-to-date information, which may be obtained from the EPA, state departments of

environmental protection, and many county governments. Furthermore, as a result of the text's age, many modern techniques are completely omitted from the latter portion. In the discussion of composting, techniques covered are limited to various windrow and in-vessel methods; any modern course covering composting should cover modern vermicomposting and larvae composting methods not invented at the time of publication.

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