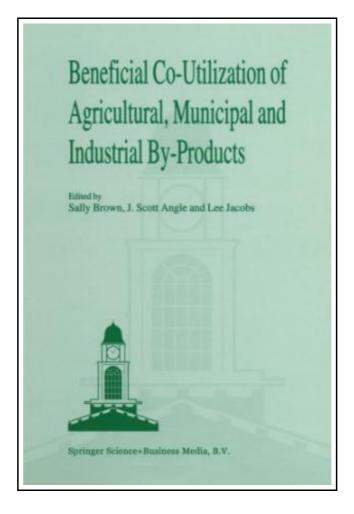
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BENEFICIAL CO-UTILIZATION OF AGRICULTURAL, MUNICIPAL AND INDUSTRIAL BY-PRODUCTS



Book Condition: New. Publisher/Verlag: Springer Netherlands | Co-utilization or blending of residuals offers a unique opportunity to develop products with particular characteristics that are able to target specific customer needs. The very notion of deliberately blending by-products suggests that the recycling and beneficial reuse industries are taking a quantitative step forward towards developing products rather than simply reusing residuals. At the same time that this step provides unique opportunities, it also presents unique challenges. The science associated with the beneficial use of one product may not apply when that product is mixed with another residual. Blending of materials may alter the chemistry of the components of the mixture. This may offer additional benefits, as in the case of disease suppression in composts, or present unexpected problems, as the use of lime-stabilized biosolids has done in Maryland. This book consists of the proceedings of the Beltsville Symposium. The organizers of the Symposium attempted to structure a meeting that would outline both the potential benefits of co-utilization as well as concerns. The editors have divided the proceedings into sections that describe the practical basis for co-utilization of residuals as well as the potential benefits. Specific considerations are described. Finally, case studies include descriptions of successful operations and data that detail results of research involving co-utilization materials. Blending of materials for specific objectives needs to be the focus of any successful co-utilization effort. The scientific implications of the mix need to be determined before a product can be used properly. | Basis for Co-Utilization of Residuals.- Why Co-utilization?.- Agronomic Benefits of Agricultural, Municipal, and Industrial By-products and Their Co-utilization: an Overview.- Status of Composting in the United States.- NRC Committee Review of Using Biosolids and Effluents in Food Crop Production.- European Perspective of Compost Co-utilization for Horticulture.- Benefits and Drawbacks to Composting Organic...

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