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Polysaccharides

By Nouredine Benkeblia

Taylor & Francis Inc, 2014. Hardcover. Book Condition: New. 15.6 x 23.5 cm. "In a web search for 'sugar factory,' the site that most closely resembled a factory that makes sugar was a large sugar refinery and its expansion plans in New York City. It is noteworthy that despite our remarkable technological advances, we still cannot duplicate one of the most common activities of the plant kingdom--manufacturing sugar. I do not mean extracting it from plants and purifying it (making it white); that's easy. I mean building sugar molecules with carbon atoms like plants do in photosynthesis. One could argue that there are no man-made sugar factories because it is simply not cost-effective; it would be a losing proposition to compete with plants at this business. The first time I read about photosynthesis, I thought it seemed impossible that plants could take carbon dioxide and water and, using energy from the sun, produce sugar. These little sugar factories absorb carbon dioxide from the air at a concentration of about 0.04%, amid overwhelming concentrations of nitrogen and oxygen. And, when they are finished, they "discard" oxygen as a waste product! But they don't stop there, which is what this book is all...



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Reviews

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