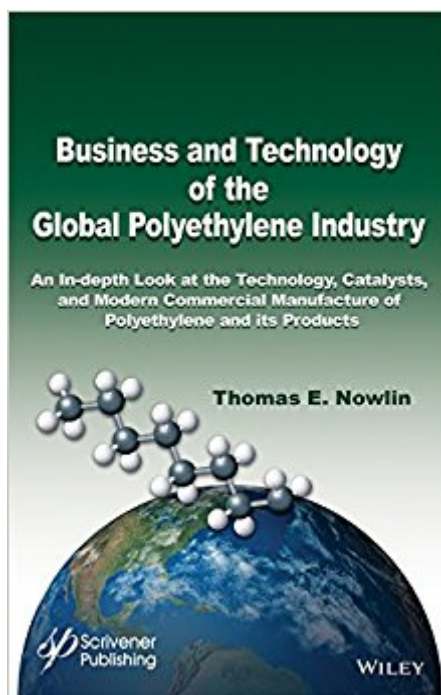


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Business And Technology Of The Global Polyethylene Industry: An In-depth Look At The History, Technology, Catalysts, And Modern Commercial Manufacture Of Polyethylene And Its Products



Synopsis

The history of the business and technology that was responsible for the enormous growth of the global polyethylene industry from the laboratory discovery in 1933 to reach an annual production of over 75 million metric tons in 2012 and become the leading plastic material worldwide. This book is an in-depth look at the history of the scientists and engineers that created the catalysts and the methods used for the modern commercial manufacture of polyethylene and its products. The book outlines the processes used for the manufacture of polyethylene are reviewed which include the high-pressure process and the three low-pressure processes; slurry, solution and the gas-phase methods. The techniques used to fabricate polyethylene into end-use products are reviewed with a discussion of blow-molding, injection molding, rotational molding, blown-film, cast-film and thermoforming are also discussed in detail.

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