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Chemical product design begins with defining a need for a specific product. This first step in product design can come from one of two stimuli. The most common stimulus, especially in established markets, is the pull of the market where. In this case, a gap is identified in a known market, which a

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new product could fill.

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In process design we normally begin by know-ing what the product is, and how much we want to make. Usually it is a commodity chemical of well

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defined purity; ethylene and terephthalic acid are good examples. This chemical will be sold into an already existing commodity market. The focus of process design is efficient manufacture.

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Paint and ice cream are examples. The third category of chemical products is devices that effect chemical change. An example is the blood oxygenator used in open-heart surgery. The nature of chemical

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product design is described in Section 1.1. Product design emphasizes decisions made before those of chemical process design, a

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[2]. Solid and multiphase products are predominantly of interest in product design, as also liquid mixtures and emulsions. The focus of all activities is the new or improved

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"Chemical engineering students and beginning chemical engineers will find this text an inviting introduction to chemical product design. The book is also well worth the attention of many more than this audience. It renders a significant service for those in

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chemical product design in the chemical industry.

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The new product-oriented chemical industry has three categories of products with different key characteristics. The first and most

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obvious category is commodities, the same products that used to dominate the chemical enterprise. The key for producing these products is their cost. The second and third categories of products may be less familiar.

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Chemical product design includes deciding what to make and how to make it. Consider four chemically-based products: an amine for scrubbing acid gases, a pollution-preventing ink, an electrode separator for high power batteries, and



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a ventilator for a well insulated house. These four products may seem to have nothing in common.

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The fundamental principles of

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chemical product design and associated systematic tools, within a broad domain of chemical products including molecules, formulations, and devices, are still under development. In this article, we propose a simple and fundamental conceptual model that defines the chemical product

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Products are the species formed from

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chemical reactions. During a chemical reaction reactants are transformed into products after passing through a high energy transition state. This process results in the consumption of the reactants. It can be a spontaneous reaction or mediated by catalysts which lower the energy of the

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transition state, and by solvents which provide the chemical environment ...

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