Process Analytical Technology Spectroscopic Tools And Implementation Strategies For The Chemical And Pharmaceutical Industries

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Process Analytical Technology explores the concepts of PAT and its application in the chemical and pharmaceutical industry from the point of view of the analytical chemist.

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Process analytical chemistry (PAC) tools: in-line and on-line analytical instruments used to measure those parameters that have been defined as CPP. These include mainly near infrared spectroscopy (NIRS); but also include biosensors, Raman spectroscopy, fiber optics and others.

~~Process analytical technology - Wikipedia~~

Process Analytical Technology: Benefits Of Spectroscopic Tool Use By John D. Orr, Ph.D., and George L. Reid, III, Ph.D. The first column of this three-part series provided an introduction to process analytical technology (PAT) and discussed the challenges associated with its adoption and implementation by industry.

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Spectroscopy is a powerful tool for process monitoring. Spectroscopic equipment has similar investment costs ($20k to $200k) as on-line HPLC. Measurement times are fast, typically in the subsecond range up to a few minutes. Furthermore, measurements can often readily be performed in-line.

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Process analytical chemistry (PAC), or process analytical technology (PAT) as it has recently been called, is now being deployed in the pharmaceutical industry, where it is seen as a technology that can help companies to improve their conformity with manufacturing compliance regulations.The objective of this book is to provide a starting point for implementing process analytical chemistry ...

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Written from the perspective of the spectroscopist required to implant PAT tools in a process environment, attention is focussed on measurements that are made “in process” at-line or off-line, providing data on product during manufacture.

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