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ScienceMedia announces that SMi Trial's fully mobile, fully compatible, just-in-time solution closes the loop in clinical trials. Clinical trials are embedded in a clinical process of humans caring ...

~~SMi Trial™ "Closes the Loop" by Confronting One of the Biggest Problems in Clinical Trials~~
GE Healthcare and SOPHiA GENETICS are partnering up to develop genomic-based artificial intelligence technology to advance cancer treatment and care.

~~Using Genomic-Based AI Technology to Advance Cancer Care~~
The company, whose total funding stands at $61.4 million, says it'll use the financing to expand its workforce, advance its technology ... analytical platforms and legal request business process ...

~~LinkSquares nabs $40M to expand its AI-powered contract platform~~
Just as air travel was beginning to recover to prepandemic levels at the beginning of summer, American Airlines was forced to cancel nearly 200 flights in a single weekend because of a shortage of ...

~~The AI Advantage: How a father and son duo is using technology to keep pilots in the air~~
The two companies will work together to come up with solutions that use machine learning and artificial intelligence to help accelerate innovation in R&D.

~~ACD/Labs, Science Data Experts establish AI partnership~~
Rockley Photonics, a leading global silicon photonics technology company, today revealed its complete full-stack, "clinic-on-the-wrist" digital health sensor system. This press release features ...

~~Rockley Photonics Unveils End-to-end Digital Health Monitoring Solution Based on Spectrophotometer-on-a-chip Sensing Module~~
In this interview, Sudharshan Rangarajan discusses how laboratories can overcome some of the hurdles of incorporating automation into their workflow and highlights some of the solutions that Thermo ...

~~The Rise of Automation in Analytical Science~~
Justin Michael, Founder at Salesborgs.ai dives into brain hacks and armchair neuroscience with radical approaches on how outbound can look and feel.

~~Neuroscience-Based Hyper-Tactical Outbound Approaches with Justin Michael~~
Snapdragon Chemistry and Corporation have agreed to enter a strategic collaboration to jointly support pharmaceutical and chemical industries by providing advanced solutions ...

~~Snapdragon Chemistry and Shimadzu Announce Collaboration to Enable Automated Biopharmaceutical Process Development~~
The movement to bring climate-risk "products" to market has led financial advisers to start guiding clients toward incorporating this new class of risks and opportunities into investments, says Alicia ...

~~Adding Climate Risk in Investment Assessments Is No Passing Trend~~
LinkSquares, provider of the fastest and most comprehensive AI-powered contract lifecycle management and analysis tool, today announced it has raised $40 million in Series B financing led by Sorenson ...

~~LinkSquares Announces $40 Million in Series B Funding Led by Sorenson Capital~~
The Hyperloop Technology Market with COVID-19 impact is expected to grow from USD XX billion in 2021 to USD 6.6 billion by 2027, at a CAGR of 40.4%. Request for Sample Copy of This Report @ This ...

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The scope of the report includes a detailed study of global and regional markets Oil & Gas Analytical Market with ...

~~Oil & Gas Analytics Market Industry Analysis, Size, Share, Growth, Trends, and Forecast 2021-2031~~
PropTech is booming and it is here to disrupt the real estate space by changing the way we look at property investments.

~~PropTech trends: How technology is disrupting the real estate sector~~
Growing adoption of cloud-based services is propelling expansion of Europe's IT and business services market, the Q2 ISG Index™ finds (Nasdaq:III).

~~Cloud-Based Services Propel European IT, Business Services Market in Q2, ISG Index™ Finds~~
Process Analytical Technology (PAT) and Quality By Design (QbD); Application of experimental design and multivariate data analysis in biopharmaceuticals Supply chain management in biologics; and ...

~~Seongkyu Yoon~~
SP Scientific Products (SP) launched its SP Hull LyoStar 4.0 R&D and process development freeze dryer is based on a full-scale production ... as well as a suite of process analytical technology (PAT) ...

~~New Pilot-Scale Lyophilizer Aids Drug Development~~
Join AI and data leaders at Transform 2021, the industry's premier AI digital event, hosted July 12-16. Transform gathers thought and action leaders from today's top enterprise technology ...

~~Transform 2021's 'Technology track' agenda~~
TYSONS, Va.--(BUSINESS WIRE)--DXC Technology (NYSE: DXC) today announced it has been positioned as a leader in the 2020 ISG Provider Lens™ Insurance Business Process Outsourcing (BPO ...

~~2020 ISG Provider Lens™ Positions DXC Technology as Leader in Insurance Business Process Outsourcing Services and Insurance BPO Platforms in U.S. Life & Retirement~~
The Hadoop market size was valued at $ XX billion in 2020, and is projected to reach $340.35 billion by 2027, growing at a CAGR of 37.5% from 2021 to 2027. Request for Sample Copy of This Report @ ...

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. In this new edition all of the original chapters have been updated and revised, and new chapters covering the important topics of sampling, NMR, fluorescence, and acoustic chemometrics have been added. Coverage includes: Implementation of Process Analytical Technologies UV-Visible Spectroscopy for On-line Analysis Infrared Spectroscopy for Process Analytical Applications Process Raman Spectroscopy Process NMR Spectrscopy: Technology and On-line Applications Fluorescent Sensing and Process Analytical Applications Chemometrics in Process Analytical Technology (PAT) On-Line PAT Applications of Spectroscopy in the Pharmaceutical Industry Future Trends for PAT for Increased Process Understanding and Growing Applications in Biomanufacturing NIR Chemical Imaging This volume is an important starting point for anyone wanting to implement PAT and is intended not only to assist a newcomer to the field but also to provide up-to-date information for those who practice process analytical chemistry and PAT. It is relevant for chemists, chemical and process engineers, and analytical chemists working on process development, scale-up and production in the pharmaceutical, fine and specialty chemicals industries, as well as for academic chemistry, chemical engineering, chemometrics and pharmaceutical science research groups focussing on PAT. Review from the First Edition "The book provides an excellent first port of call for anyone seeking material and discussions to understand the area better. It deserves to be found in every library that serves those who are active in the field of Process Analytical Technology."—Current Engineering Practice

The Process Analytical Technology (PAT) initiative aims to move from a paradigm of 'testing quality in' to 'building quality in by design'. It can be defined as the optimal application of process analytical technologies, feedback process control strategies, information management tools, and/or product–process optimization strategies. Recently, there have been significant advances in process sensors and in model-based monitoring and control methodologies, leading to enormous opportunities for improved performance of food manufacturing processes and for the quality of food products with the adoption of PAT. Improvements in process efficiency, reduced product variability, enhanced traceability, process understanding, and decreased risk of contamination are some of the benefits arising from the introduction of a PAT strategy in the food industry. Process Analytical Technology for the Food Industry reviews established and emerging PAT tools with potential application within the food processing industry. The book will also serve as a reference for industry, researchers, educators, and students by providing a comprehensive insight into the objectives, challenges, and benefits of adopting a Process Analytical Technology strategy in the food industry.

Advances and Challenges in Pharmaceutical Technology: Materials, Process Development and Drug Delivery Strategies examines recent advancements in pharmaceutical technology. The book discusses common formulation strategies, including the use of tools for statistical formulation optimization, Quality by design (QbD), process analytical technology, and the uses of various pharmaceutical biomaterials, including natural polymers, synthetic polymers, modified natural polymers, bioceramics, and other bioinorganics. In addition, the book covers rapid advancements in the field by providing a thorough understanding of pharmaceutical processes, formulation developments, explorations, and exploitation of various pharmaceutical biomaterials to formulate pharmaceutical dosage forms. Provides extensive information and analysis on recent advancements in the field of pharmaceutical technology Includes contributions from global leaders and experts in academia, industry and regulatory agencies Uses high quality illustrations, flow charts and tables to explain concepts and text to readers, along with practical examples and research case studies

This book is devoted to new developments in measurement technologies for upstream and downstream bioprocessing. The recent advances in biotechnology and bioprocessing have generated a number of new biological products that require more qualified analytical technologies for diverse process analytical needs. These includes especially fast and sensitive measurement technology that, early in the process train, can inform on critical process parameters related to process economy and product quality and that can facilitate ambitions of designing efficient integrated end-to-end bioprocesses. This book covers these topics as well as analytical monitoring methods based either on real-time or in-line sensor technology, on simple and compact bioanalytical devices, or on the use of advanced data prediction methods.

Fossil fuels still need to meet the growing demand of global economic development, yet they are often considered as one of the main sources of the CO2 release in the atmosphere. CO2, which is the primary greenhouse gas (GHG), is periodically exchanged among the land surface, ocean, and atmosphere where various creatures absorb and produce it daily. However, the balanced processes of producing and consuming the CO2 by nature are unfortunately faced by the anthropogenic release of CO2. Decreasing the emissions of these greenhouse gases is becoming more urgent. Therefore, carbon sequestration and storage (CSS) of CO2, its utilization in oil recovery, as well as its conversion into fuels and chemicals emerge as active options and potential strategies to mitigate CO2 emissions and climate change, energy crises, and challenges in the storage of energy.

Written for industrial and academic researchers and development scientists in the life sciences industry, Bioprocessing Technology for Production of Biopharmaceuticals and Bioproducts is a guide to the tools, approaches, and useful developments in bioprocessing. This important guide: • Summarizes state-of-the-art bioprocessing methods and reviews applications in life science industries • Includes illustrative case studies that review six milestone bio-products • Discuses a wide selection of host strain types and disruptive bioprocess technologies

A comprehensive look at existing technologies and processes for continuous manufacturing of pharmaceuticals As rising costs outpace new drug development, the pharmaceutical industry has come under intense pressure to improve the efficiency of its manufacturing processes. Continuous process manufacturing provides a proven solution. Among its many benefits are: minimized waste, energy consumption, and raw material use; the accelerated introduction of new drugs; the use of smaller production facilities with lower building and capital costs; the ability to monitor drug quality on a continuous basis; and enhanced process reliability and flexibility. Continuous Manufacturing of Pharmaceuticals prepares professionals to take advantage of that exciting new approach to improving drug manufacturing efficiency. This book covers key aspects of the continuous manufacturing of pharmaceuticals. The first part provides an overview of key chemical engineering principles and the current regulatory environment. The second covers existing technologies for manufacturing both small-molecule-based products and protein/peptide products. The following section is devoted to process analytical tools for continuously operating manufacturing environments. The final two sections treat the integration of several individual parts of processing into fully operating continuous process systems and summarize state-of-art approaches for innovative new manufacturing principles. Brings together the essential know-how for anyone working in drug manufacturing, as well as chemical, food, and pharmaceutical scientists working on continuous processing Covers chemical engineering principles, regulatory aspects, primary and secondary manufacturing, process analytical technology and quality-by-design Contains contributions from researchers in leading pharmaceutical companies, the FDA, and academic institutions Offers an extremely well-informed look at the most promising future approaches to continuous manufacturing of innovative pharmaceutical products Timely, comprehensive, and authoritative, Continuous Manufacturing of Pharmaceuticals is an important professional resource for researchers in industry and academe working in the fields of pharmaceuticals development and manufacturing.

This book offers readers an accessible introduction to the world of multivariate statistics in the life sciences, providing a comprehensive description of the general data analysis paradigm, from exploratory analysis (principal component analysis, self-organizing maps and clustering) to modeling (classification, regression) and validation (including variable selection). It also includes a special section discussing several more specific topics in the area of chemometrics, such as outlier detection, and biomarker identification. The corresponding R code is provided for all the examples in the book; and scripts, functions and data are available in a separate R package. This second revised edition features not only updates on many of the topics covered, but also several sections of new material (e.g., on handling missing values in PCA, multivariate process monitoring and batch correction).

The ultimate goal of drug product development is to design a system that maximizes the therapeutic potential of the drug substance and facilitates its access to patients. Pharmaceutical Dosage Forms: Tablets, Third Edition is a comprehensive resource of the design, formulation, manufacture, and evaluation of the tablet dosage form, an