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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 publication is a result of a 2 year innovative exploratory and reflective study of cities as unique urban spaces that support life work and play it responds to major issues that affect the quality of life of urban residents this publication offers practical ways on how urban managers urban practitioners businesspeople and citizens can engage to make cities more livable by building on their distinctive physical social cultural and economic characteristics with the adoption of the sustainable development goals by the united nations the book comes at the right time to offer integrated urban development solutions that can translate global development commitments into urban level actions to achieve livable cities

the noteworthy findings and innovative methods of predicting projectile trajectory introduced in my books exterior ballistics a new approach ebna xlibris 2010 and exterior ballistics with applications eba3e xlibris third edition december 2011 require a methodical approach and further development as result the amateurs and professionals interested in exterior ballistics of firearms and especially in long range shooting with small arms have a new book exterior ballistics the remarkable methods ebrm that aims to enrich the foundations of modern exterior ballistics and to lessen the complexity of physics and mathematics techniques in use exterior ballistics the remarkable methods is a book that combines and develops further the methods introduced in eba3e ebna and in the exterior ballistics of small arms ebsa xlibris 2009 the foundations of the book are mainly the findings and the innovative ballistics methods presented in eba3e and ebna the remarkable methods of exterior ballistics presented in this new book include the methods of determining the function of resistance $g(v)$ of a given bullet i 1 using range tables or the experimental data measurements of three or four coordinates at the points of projectile impact the model of tangent law of trajectory refraction and the related set of formulas that we use to study the trajectories of projectiles in nonstandard atmosphere series expansion method and the techniques of second to sixth order parabolas we employ to predict with great accuracy the projectile trajectory the exceptional siacci s methods that we apply as well for the projectile trajectory in nonstandard atmosphere and in inclined shooting combined with the tangent law of trajectory refraction it is important to note that using the similarity laws of fluid dynamics we have obtained the tangent law of projectile refraction which represents a progress with respect to newton snell s law on projectile refraction for better understanding of the information presented in the book the reader should refer to my three preceding books on exterior ballistics already published by xlibris although most of the material is self contained and clear enough to be accessed and assimilated by a wide range of readers the system of units used in the book is the international system si for readers that are unfamiliar with the si system it is not difficult to become accustomed and use the materials presented in the book to benefit from the simple illustrations exercises and pc programs that at the same time give answers to many problems encountered in practice my studies and writing work in exterior ballistics intend to find new and simple mathematical models and methods to predict the elements of the projectile trajectory i believe that i have

achieved some good results which need to be further developed george klimi phd new york december 2012 gklimi pace edu iven24 aol com gklimi citytech cuny edu

india has moved along an impressive growth path over the last decade marked with falling share of agriculture stagnating manufacturing expanding services segment growing trade orientation enhanced fdi inflows etc the consequent growth implications are obvious as far as the numbers like gdp growth rate and per capita gdp trend are concerned but how sustainable the associated development is with respect to resource management and environmental governance this book captures the economy wide impacts of various activities on environment in india the environmental impacts on water air soil quality and human health are captured through case studies from different parts of india analyzing separately the concern areas within agriculture cultivation aquaculture manufacturing industrial pollution power generation services waste management bio medical waste e waste recycling and external sector agricultural trade fdi inflow trade in waste products performance of india the book attempts to find an answer to that crucial question the methodology adopted to capture the environmental impacts of various economic activities is derived from the relevant branches like environmental economics agricultural economics and water resources economics the book focusing on particular sectors indicates the concern areas and possible ways for enhancing environmental governance

the future of modular architecture presents an unprecedented proposal for mass customized mid and high rise modular housing that can be manufactured and distributed on a global scale advocating for the adoption of open source design based on a new modular standard the book shows how the construction industry and architectural practice may soon be radically reshaped by leveraging the existing intermodal freight transport system global supply chains can be harnessed to realize the long held promise that housing will be a well designed and affordable industrial product we are on the cusp of a transformative change in the way we design and build our cities author david wallance argues that modular architecture is profoundly intertwined with globalization equitable urbanism and sustainable development his book addresses these timely issues through a specific approach grounded in fundamental concepts going beyond the individual modular building wallance forecasts the emergence of a new type of design manufacturing and construction enterprise written in an approachable style with illustrated examples the book is a must read for professionals in architecture and design city planning construction real estate as well as the general reader with an interest in these topics

this book serves as a comprehensive resource on metals and materials selection for the petrochemical industrial sector the petrochemical industry involves large scale investments and to maintain profitability the plants are to be operated with minimum downtime and failure of equipment which can also cause safety hazards to achieve this objective proper selection of materials corrosion control and good engineering practices must be followed in both the design and the operation of plants engineers and professional of different disciplines involved in these activities are required to have some basic understanding of metallurgy and corrosion this book is written with the objective of serving as a one stop shop for these engineering professionals the book first covers different metallic materials and their properties metal forming processes welding and corrosion and corrosion control measures this is followed by considerations in material selection and corrosion control in three major industrial sectors oil gas production oil refinery and fertilizers the importance of pressure vessel codes as well as inspection and maintenance repair practices have also been highlighted the book will be useful for technicians and entry level engineers in these industrial sectors additionally the book may also be used as primary or secondary reading for graduate and professional coursework

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