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### NPK357 - PITTS DUKE

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"HOW SWEET IT IS will set your heart on fire" -Robyn Carr, New York Times bestselling author "One sweet read! Everything I love best: humor, warmth, emotions that pull at the heartstrings, characters that step off the page, and a wonderful love story." -- Mariah Stewart, New York Times best-selling author HOW SWEET IT IS Single mom Lizzie Bea Carpenter learned long ago that no white knight was coming to save her. A hardworking waitress at the local diner, she's raising her daughter to be like the independent women in her "Enemy Club"--high school rivals turned best friends, promising to always tell each other the whole truth and nothing but! Yet part of Lizzie wishes she did have a man's help, just for small stuff, like fixing up the house. Her fairy godmother must have been listening, because Dante "Tay" Giovanni soon appears. He's sexy, kind, and offering assistance--no strings attached. Slowly, steadily, Lizzie's heart opens. But the grip of the past is fierce, and nothing in life is ever really free. Tay has his own tragedies to overcome, but if he can, he'll fix more than Lizzie's home. He'll show her just how sweet it is to be loved by him.

Within Jerry Seinfeld's renowned Porsche collection resides an unassuming yet extraordinary piece of Porsche history: Porsche Gmünd coupe 356/2-040. Captured exclusively for this book in a series of evocative portraits by acclaimed automotive photographer Michael Furman, 040s unsullied originality conveys with startling immediacy the combination of artistry, innovation and determination that went into its improbable creation. Porsche-Origin of the Species will appeal to all car enthusiasts who are eager to know what events really ignited the spark from which all other Porsches evolved

This edited collection brings together a selection of expert authors and draws on a wide range of case studies, geographies, and perspectives to explore the links between forced migration and energy access. This book addresses the paucity of academic study on how energy is delivered to the millions of people currently forcibly displaced. The contributions throughout assess the current energy governance regimes, models of delivery, and innovative solutions that are dictating how energy is – and can be – provided to those who have been forced to move away from their homes. By bringing together author-teams of practitioners, academics, businesses, and policy makers, this collection encourages interdisciplinary dialogue about the best way of approaching energy provision for the forcibly displaced. This book will be of great interest to students and scholars of energy access and policy, environmental justice and equity, and migration and refugee studies.

The carbonyl group is undoubtedly one of the most important functional groups in organic chemistry, both in its role as reactive center for synthesis or derivatisation and as crucial feature for special structural or physiological properties. Vast and profound progress has been made in all aspects modern carbonyl chemistry. These achievements are, however, rather dispersed in the literature and it is often not easy for the researcher obtain a comprehensive overview of a relevant topic. Modern Carbonyl Chemistry overcomes this inconvenience by collating the information for appropriate themes. In this work internationally renowned experts and leaders in the field have surveyed recent aspects and modern features in carbonyl chemistry, such as cascade-reactions, one-pot-syntheses, recognition, or site differentiation.

This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by open-

ness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

This is the 14th edition of 'Marketing Management' which preserves the strengths of previous editions while introducing new material and structure to further enhance learning.

Plant Proteomics highlights rapid progress in this field, with emphasis on recent work in model plant species, sub-cellular organelles, and specific aspects of the plant life cycle such as signaling, reproduction and stress physiology. Several chapters present a detailed look at diverse integrated approaches, including advanced proteomic techniques combined with functional genomics, bioinformatics, metabolomics and molecular cell biology, making this book a valuable resource for a broad spectrum of readers.

This book enlightens the type, chemical structure, and application of photo-catalysts. It covers the recent developments in photo-catalysts and their applications, particularly in photo-catalytic degradation of different organic pollutants, hydrogen production, etc. It provides a concise but complete coverage and overview of photocatalysts and their recent advances for a broad audience: beginners, graduate students, and specialists in both academic and industrial sectors.

In view of the growing presence and popularity of multicore and manycore processors, accelerators, and coprocessors, as well as clusters using such computing devices, the development of efficient parallel applications has become a key challenge to be able to exploit the performance of such systems. This book covers the scope of parallel programming for modern high performance computing systems. It first discusses selected and popular state-of-the-art computing devices and systems available today, These include multicore CPUs, manycore (co)processors, such as Intel Xeon Phi, accelerators, such as GPUs, and clusters, as well as programming models supported on these platforms. It next introduces parallelization through important programming paradigms, such as master-slave, geometric Single Program Multiple Data (SPMD) and divide-and-conquer. The practical and useful elements of the most popular and important APIs for programming parallel HPC systems are discussed, including MPI, OpenMP, Pthreads, CUDA, OpenCL, and OpenACC. It also demonstrates, through selected code listings, how selected APIs can be used to implement important programming paradigms. Furthermore, it shows how the codes can be compiled and executed in a Linux environment. The book also presents hybrid codes that integrate selected APIs for potentially multi-level parallelization and utilization of heterogeneous resources, and it shows how to use modern elements of these APIs. Selected optimization techniques are also included, such as overlapping communication and computations implemented using various APIs. Features: Discusses the popular and currently available computing devices and cluster systems Includes typical paradigms used in parallel programs Explores popular APIs for programming parallel applications Provides code templates that can be used for implementation of paradigms Provides hybrid code examples allowing multi-level parallelization Covers the optimization of parallel programs

The loss of skeletal muscle mass and strength substantially impairs physical performance and quality of life. This book details some approaches to the treatment of muscle wasting. It also reviews novel applications against pulmonary arterial hypertension such as cell reprogramming and the use of anticancer drugs that induce programmed cell death. Vascular smooth muscle cells (VSMCs) are the most prevalent cell types in blood vessels and serve critical regulatory roles. This publica-

tion also introduces mathematical models concerning the molecular mechanism and targets of cyclic guanosine 3',5'-monophosphate (cGMP) in the contraction of VSMCs. This book will be of interest to professionals in clinical practice, medical and health care students, and researchers working in muscle-related fields of science.

Learn to calculate drug dosages safely, accurately, and easily with Kee's Clinical Calculations, 9th Edition! This market-leading text covers all four major drug calculation methods, including ratio & proportion, formula, fractional equation, and dimensional analysis. It also includes practice problems for both general care as well as specialty areas such as pediatrics, labor and delivery, critical care, and community nursing. With its market-leading, comprehensive coverage; strong emphasis on patient safety; and the incorporation of the latest information on antidiabetic agents, anticoagulant agents, drug administration techniques, and devices; Kee remains the winning choice for easy drug calculation mastery. Coverage of all four major drug calculation methods includes ratio & proportion, formula, fractional equation, and dimensional analysis to help you learn and apply the method that works best for you. The latest information on drug administration techniques and devices helps you master the most up-to-date techniques of drug administration, including oral, intravenous, intra-muscular, subcutaneous, and other routes. Caution boxes provide alerts to problems or issues related to various drugs and their administration. Information on infusion pumps covers enteral, single, multi-channel, PCA, and insulin; and explains their use in drug administration. Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric, critical care, labor and delivery, and community settings. Detailed, full-color photos and illustrations show the most current equipment for IV therapy, the latest types of pumps, and the newest syringes. Comprehensive post-test lets you test your knowledge of key concepts from the text. NEW! Updated information on Antidiabetic Agents (orals and injectables) has been added throughout the text where appropriate. NEW! Updated content on Anticoagulant Agents is housed in an all-new chapter. NEW! Colorized abbreviations for the four methods of calculation (BF, RP, FE, and DA) appear in the Example Problems sections. NEW! Updated content and patient safety guidelines throughout the text reflects the latest practices and procedures. NEW! Updated practice problems across the text incorporate the latest drugs and dosages.

Eggs have been used as key part of the human diet for millennia. They contain a great variety of nutrients and material to sustain life and growth. The role of the egg as natural source of vitamins, proteins, fats, and other nutrients, continues to develop. Some nutrients have a controversy in benefits and risks. This controversy is the subject of several chapters in this book. Eggs have been used for decades by pharmaceutical companies as vehicles to grow viruses for vaccines. Currently, eggs are being developed to make antibodies for human use, so-called designer eggs. Eggs can also be used as vehicle to transport vitamins and minerals to humans via nutrient supplemented laying hens. These benefits are subject to commercial expansion, as well as being an active research area. This book, with summary points for each chapter, helps you to understand the role of eggs (including designer eggs) in general nutrition, health promotion and disease. It is aimed at health scientists, nutritionists, dieticians, and food industry groups.

Urban areas produce a series of environmental problems arising from the consumption of natural resources and the consequent generation of waste and pollution. These problems contribute to the development of social and economic imbalances. All these problems, which continue to grow in our society, require new solutions. This book addresses the many inter-related aspects of the urban environment from transport and mobility to social exclusion and crime prevention. Publishing papers from the Fourth International Conference on Urban Regeneration and Sustainability, the volume includes topics such as: Strategy and Development; Planning; Development and Management; Environmental Management; Planning Issues; Socio-economic Issues; The community and the City; Cul-

tural Heritage; Architectural Issues; Traffic and Transportation; Land Use and Management; Public Safety; Conservation of Resources; Sustainable Transportation and Transport Integration; Depleted Ecological Resources; Environmental Pollution; Energy Resources Systems.

The Annual Review of Comparative and International Education covers significant developments in the field of comparative and international education. This 2020 edition begins with a collection of discussion essays about comparative education trends and directions written by both professional and scholarly leaders.

This book serves as an introduction to targeted genome editing, beginning with the background of this rapidly developing field and methods for generation of engineered nucleases. Applications of genome editing tools are then described in detail, in iPS cells and diverse organisms such as mice, rats, marine invertebrates, fish, frogs, and plants. Tools that are mentioned include zinc finger nucleases (ZFNs), transcription activator-like effector nucleases (TALENs), and CRISPR/Cas9, all of which have received much attention in recent years as breakthrough technologies. Genome editing with engineered nucleases allows us to precisely change the target genome of living cells and is a powerful way to control functional genes. It is feasible in almost all organisms ranging from bacteria to plants and animals, as well as in cultured cells such as ES and iPS cells. Various genome modifications have proven successful, including gene knockout and knock-in experiments with targeting vectors and chromosomal editing. Genome editing technologies hold great promise for the future, for example in biomedical research, clinical medicine, and generation of crops and livestock with desirable traits. A wide range of readers will find this book interesting, and with its focus on applications in a variety of organisms and cells, the book will be valuable for life scientists in all fields.

The book is a collection of chapters discussing the Sustainable Development Goals in the broader context of Islamic finance along with mapping the SDGs with Maqasid Al-Shariah. It provides a framework for both Muslim and non-Muslim countries to develop a sustainable economy which encompasses not only the concept of the welfare state but also supports development-related activities, ensures financial inclusion through equal distribution of wealth and alleviation of poverty, and protects the overall environmental and ecological system. More specifically, this book explores various aspects of Islamic finance in relation to parameters of SDGs; restructuring of Islamic finance and connecting its dots in the light of SDGs; Islamic perspective on ESG and ecological quality; interest-free tools and modernization of Islamic financial institutions for sustainable development and economic stability; and the role of Islamic finance in infrastructure-related development activities. Consistent with the view that SDGs are embedded within the theme of Islamic finance, this book is specifically designed to meet the needs of key regulatory institutions, academic scholars, and industry practitioners both in the field of Islamic finance and sustainable finance.

This conference proceedings presents the research papers in the field of mine planning and mining equipment including themes such as mine automation, rock mechanics, drilling, blasting, tunnelling and excavation engineering. The papers presents the recent advancement and the application of a range of technologies in the field of mining industry. It is of interest to the professionals who practice in mineral industry including but not limited to engineers, consultants, managers, academics, scientist, and government staff.

Based on the authors' combined experience of seventy years working on projects around the globe, *Construction Equipment Management for Engineers, Estimators, and Owners* contains hands-on, how-to information that you can put to immediate use. Taking an approach that combines analytical and practical results, this is a valuable reference for a wide range of individuals and organizations within the architecture, engineering, and construction industry. The authors delineate the evolution of construction equipment, setting the stage for specific, up-to-date information on the state-of-the-art in the field. They cover estimating equipment ownership, operating cost, and how to determine economic life and replacement policy as well as how to schedule a production-driven, equipment-intensive project that achieves target production rates and meets target equipment-related unit costs and profits. The book includes a matrix for the selection of equipment and identifies common pitfalls of project equipment selection and how to avoid them. It describes how to develop an OSHA job safety analysis for an equipment-intensive project, making this sometimes onerous but always essential task easier. The authors' diverse and broad experience makes this a book that ranges from the rigorous mathematical analysis of equipment operations to the pragmatic discussion of the equipment maintenance programs needed to guarantee that the production predicted in a cost estimate occurs.

This comprehensive atlas explains the genesis and evolution of impact known craters on Earth, pre-

senting a wealth of radar images from the Italian COSMO-SkyMed satellites that were acquired at the same frequency, spatial resolution, operating mode, and illumination, allowing excellent comparison of different impact structures. It also discusses in detail the processes that have hidden or erased terrestrial impact craters, and clearly explains the basic principles of remote sensing and the COSMO-SkyMed system and radar instruments. Also, the optical satellite remote sensing technique used to produce the optical images is described. The main section documents each of the exposed craters officially recognized as caused by meteoritic impact, presenting a table with the COSMO-SkyMed radar image and, where available, a Sentinel optical image and a photograph taken in situ. A short accompanying text reports the location, context, geographical coordinates, and other ancillary information to support future researches.

The two-part, fifth edition of *Advanced Organic Chemistry* has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

*Negotiation Excellence: Successful Deal Making* is written by leading negotiation experts from top-rated universities in the US and in Asia and its objective is to introduce readers to the theory and best practices of effective negotiation. The book includes chapters ranging from: preparing and planning for successful negotiations; building relationships and establishing trust between negotiators; negotiating creatively to create mutual value and win-win situations; understanding and dealing with negotiators from different cultures; to managing ethical dilemmas. In addition to emphasizing the link between theory and practice, the book includes deal examples such as: Renault-Nissan alliance; mega-merger between Arcelor and Mittal Steel; Kraft Foods' acquisition of Cadbury PLC, Walt Disney Company's negotiation with the Hong Kong government; and Komatsu, a Japanese firm's negotiation with Dresser, an American firm. Following the success of the first edition, the second edition re-emphasizes the spirit of linking theory to practice with two new chapters on emotions in negotiation and the Indian negotiation style.

This book addresses opioids and opioid use disorders from epidemiological, clinical, and public health perspectives. It covers detailed information on the nature of opioids, their effects on the human body and brain, prevention, and treatment of opioid addiction. Unlike other texts, the first section of this volume builds a strong historical, neurobiological, and phenomenological foundation for a deep understanding of the topic and the patient. The second section addresses the most challenging issues clinicians face, including pharmacological and psychosocial treatments, harm reduction approaches, alternative approaches to pain management for the non-specialist, and prescribing guidelines. *Treating Opioid Addiction* is a valuable resource for psychiatrists, psychologists, addiction medicine physicians, primary care physicians, drug addiction counselors, students, trainees, scholars, and public health officials interested in the effects and impact of opioids in the clinical and epidemiological context.

This book covers material challenges and technology innovation in coated and laminated textiles for aerostats and airships. Aerostats/airships are lighter-than-air (LTA) aircraft which are generally used in defence applications and face many harsh environmental conditions. For sustaining such conditions, there are special requirements for the material to be used in aerostats/airships which generally include a multi-layered coated/laminated textile using a textile fabric in base layer and different polymers for coating/lamination. Therefore, this book covers typical materials developed by different countries, challenges for developing material for aerostat/airship envelope and the future scope. Features: Exclusive title on materials used for LTA envelopes. Discusses material challenges such as selection of suitable fibre, polymer, additive, coating/lamination techniques, joint type and sealing techniques. Includes typical materials developed by different companies and researchers worldwide. Clearly explains technical concepts using figures, schemes and tabulated data. Includes case studies on material developed for aerostats/airships by different countries including NASA, Lockheed Martin, JAXA, ADRDE and DRDO. This book is aimed at graduate students, researchers and professionals in textiles engineering and aerospace engineering.

Do you regard hypothyroidism as a more complex issue than just a simple prescription of levothyroxine tablet? Are you interested in getting more information on the management of thyroid dysfunction in pregnancy, at birth, in childhood or in subclinical states? Have you been thinking of performing thyroid ultrasound in hypothyroid patients by yourself, or perhaps you already do it and

are not so sure about it? Then this book should give you some answers and help you form your own opinion. You will find there several excellent review articles from authors from all over the world.

The dramatic arc of Saigo Takamori's life, from his humble origins as a lowly samurai, to national leadership, to his death as a rebel leader, has captivated generations of Japanese readers and now Americans as well - his life is the inspiration for a major Hollywood film, *The Last Samurai*, starring Tom Cruise and Ken Watanabe. In this vibrant new biography, Mark Ravina, professor of history and Director of East Asian Studies at Emory University, explores the facts behind Hollywood storytelling and Japanese legends, and explains the passion and poignancy of Saigo's life. Known both for his scholarly research and his appearances on The History Channel, Ravina recreates the world in which Saigo lived and died, the last days of the samurai. *The Last Samurai* traces Saigo's life from his early days as a tax clerk in far southwestern Japan, through his rise to national prominence as a fierce imperial loyalist. Saigo was twice exiled for his political activities -- sent to Japan's remote southwestern islands where he fully expected to die. But exile only increased his reputation for loyalty, and in 1864 he was brought back to the capital to help his lord fight for the restoration of the emperor. In 1868, Saigo commanded his lord's forces in the battles which toppled the shogunate and he became and leader in the emperor Meiji's new government. But Saigo found only anguish in national leadership. He understood the need for a modern conscript army but longed for the days of the traditional warrior. Saigo hoped to die in service to the emperor. In 1873, he sought appointment as envoy to Korea, where he planned to demand that the Korean king show deference to the Japanese emperor, drawing his sword, if necessary, to defend imperial honor. Denied this chance to show his courage and loyalty, he retreated to his homeland and spent his last years as a schoolteacher, training samurai boys in frugality, honesty, and courage. In 1876, when the government stripped samurai of their swords, Saigo's followers rose in rebellion and Saigo became their reluctant leader. His insurrection became the bloodiest war Japan had seen in centuries, killing over 12,000 men on both sides and nearly bankrupting the new imperial government. The imperial government denounced Saigo as a rebel and a traitor, but their propaganda could not overcome his fame and in 1889, twelve years after his death, the government relented, pardoned Saigo of all crimes, and posthumously restored him to imperial court rank. In *THE LAST SAMURAI*, Saigo is as compelling a character as Robert E. Lee was to Americans - a great and noble warrior who followed the dictates of honor and loyalty, even though it meant civil war in a country to which he'd devoted his life. Saigo's life is a fascinating look into Japanese feudal society and a history of a country as it struggled between its long traditions and the dictates of a modern future.

The smartphone is often literally right in front of our nose, so you would think we would know what it is. But do we? To find out, 11 anthropologists each spent 16 months living in communities in Africa, Asia, Europe and South America, focusing on the take up of smartphones by older people. Their research reveals that smartphones are technology for everyone, not just for the young. The *Global Smartphone* presents a series of original perspectives deriving from this global and comparative research project. Smartphones have become as much a place within which we live as a device we use to provide 'perpetual opportunism', as they are always with us. The authors show how the smartphone is more than an 'app device' and explore differences between what people say about smartphones and how they use them. The smartphone is unprecedented in the degree to which we can transform it. As a result, it quickly assimilates personal values. In order to comprehend it, we must take into consideration a range of national and cultural nuances, such as visual communication in China and Japan, mobile money in Cameroon and Uganda, and access to health information in Chile and Ireland - all alongside diverse trajectories of ageing in Al Quds, Brazil and Italy. Only then can we know what a smartphone is and understand its consequences for people's lives around the world.

The second edition of a comprehensive introduction to all aspects of mobile robotics, from algorithms to mechanisms. Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro. This text offers students and other interested readers an introduction to the fundamentals of mobile robotics, spanning the mechanical, motor, sensory, perceptual, and cognitive layers the field comprises. The text focuses on mobility itself, offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks, including locomotion, sensing, localization, and motion planning. It synthesizes material from such fields as kinematics, control theory, signal analysis, computer vision, information theory, artificial intelligence, and probability theory. The book presents the techniques and technology that enable mobility in a series of interacting modules. Each chapter treats

a different aspect of mobility, as the book moves from low-level to high-level details. It covers all aspects of mobile robotics, including software and hardware design considerations, related technologies, and algorithmic techniques. This second edition has been revised and updated throughout, with 130 pages of new material on such topics as locomotion, perception, localization, and planning and navigation. Problem sets have been added at the end of each chapter. Bringing together all aspects of mobile robotics into one volume, *Introduction to Autonomous Mobile Robots* can serve as a textbook or a working tool for beginning practitioners. Curriculum developed by Dr. Robert King, Colorado School of Mines, and Dr. James Conrad, University of North Carolina-Charlotte, to accompany the National Instruments LabVIEW Robotics Starter Kit, are available. Included are 13 (6 by Dr. King and 7 by Dr. Conrad) laboratory exercises for using the LabVIEW Robotics Starter Kit to teach mobile robotics concepts.

The Annual Update compiles the most recent developments in experimental and clinical research and practice in one comprehensive reference book. The chapters are written by well recognized experts in the field of intensive care and emergency medicine. It is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.

Loved by generations, the Yes & Know books are back! All ages will have hours of fun with these popular activity books. Play hangman, tic-tac-toe, battleship and more. Each book comes with an invisible ink pen that works like magic. Draw over the empty spaces and watch as hidden answers are instantly revealed. Filled with fascinating facts and fun games, these books are great boredom busters for home or travel!

“A good read for anyone who wants to understand what actually determines whether a developing

economy will succeed” (Bill Gates, “Top 5 Books of the Year”). An Economist Best Book of the Year from a reporter who has spent two decades in the region, and who The Financial Times said “should be named chief myth-buster for Asian business.” In *How Asia Works*, Joe Studwell distills his extensive research into the economies of nine countries—Japan, South Korea, Taiwan, Indonesia, Malaysia, Thailand, the Philippines, Vietnam, and China—into an accessible, readable narrative that debunks Western misconceptions, shows what really happened in Asia and why, and for once makes clear why some countries have boomed while others have languished. Studwell’s in-depth analysis focuses on three main areas: land policy, manufacturing, and finance. Land reform has been essential to the success of Asian economies, giving a kick-start to development by utilizing a large workforce and providing capital for growth. With manufacturing, industrial development alone is not sufficient, Studwell argues. Instead, countries need “export discipline,” a government that forces companies to compete on the global scale. And in finance, effective regulation is essential for fostering, and sustaining growth. To explore all of these subjects, Studwell journeys far and wide, drawing on fascinating examples from a Philippine sugar baron’s stifling of reform to the explosive growth at a Korean steel mill. “Provocative . . . *How Asia Works* is a striking and enlightening book . . . A lively mix of scholarship, reporting and polemic.” —The Economist

Abstract Due to precision, flexibility, simplicity in construction, easy control, higher speed and lower energy consumptions, servo presses have recently become popular in metal forming applications. Servo press technology combines the advantages of hydraulic and conventional mechanical presses without their drawbacks. This study presents design, construction and demonstration of a servo crank press system for metal forming operations. The research involves kinematics and mo-

tion optimization, dynamic modeling, structural design and analysis, servo motor selection, automation and control, and operational performances of the servo press. The press used in this work has a load capacity of 50 ton and stroke capacity of 200 mm. Firstly, optimized trajectories of ram scenarios are generated. Then dynamic modeling using Lagrange approach is presented. Next structural model is constructed, and Finite Element Analysis (FEA) of press parts are performed within safety limits. A servo motor with a reduction unit is selected based on dynamic model. After that a new automation system is developed, and Cascade Feed-Forward (CasFF) control is applied. Moreover, four motion scenarios (crank, dwell, link, and soft motion) are employed for the performance assessment of press. Finally, the dynamic model is verified by the experimental results. The research study is carried out under support and grant of an industrial project, aiming to provide know-how to industry and researchers. Key Words: Servo crank press, metal forming, motion design, dynamic modeling, system control

This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.