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SJ7L64 - JAMARCUS KNOX

Este livro contém todos os princípios básicos sobre os processos de usinagem, apresentando os modelos e conceitos imprescindíveis ao engenheiro envolvido com a matéria. A nomenclatura e a simbologia específicas da usinagem dos materiais são as mais atualizadas e a aplicação destas é claramente exemplificada. A obra mostra, de maneira clara e didática, a formação de cavacos, com modelos teóricos consagrados, os quais permitem não só o entendimento mas também a aplicação nos cálculos de força e potência de usinagem. Esses

conceitos se aplicam a qualquer outro processo de usinagem, independentemente dos materiais usinados, mesmo em compósitos hoje largamente utilizados na indústria aeroespacial. Os modelos permitem a previsão de resultados, bem como a seleção de máquinas e equipamentos. O livro aborda também os mais recentes avanços em materiais para ferramentas de corte, suas aplicações e vantagens, proporcionando uma visão bastante atualizada das melhores práticas em usinagem de materiais. Além desses tópicos, o texto apresenta modelos para avaliação econômica das operações de usinagem,

mostrando como as condições de corte, avanço, velocidade e profundidade de corte podem tornar os processos mais produtivos. Por último, os processos abrasivos são descritos e analisados com base nas mais recentes descobertas científicas nesta importante área de acabamento da usinagem.

Brain-mind problems like consciousness have been stimulating the interest of philosophers and scientists since the ancient times. In the last decades, the dramatic development of neuroscience has allowed studying such phenomena at several different levels - from single neurons to be-

havior. Binocular rivalry, a paradigm dissociating the sensory input from the conscious perception during dichoptic viewing of incongruent images, has been a celebrated example of such a tool. During the last century, empirical research on binocular rivalry contributed the first important insights into the neuronal mechanisms of subjective visual perception. Recent advances in brain imaging and electrophysiological recording/stimulating techniques as well as novel theoretical concepts and analytical methods could be exploited to expand our knowledge on this fascinating phenomenon of visual perception and elucidate the neural processes underlying visual consciousness. This Research Topic aims to bring together contributions that could expand the current frontiers of knowledge in binocular rivalry. In particular we would like to focus on reviews, hypothesis & theory or original research articles that specifically combine novel concepts, analytical tools and neurophysiological techniques with binocular rivalry. We expect that these contributions will a) integrate the vast knowledge already existing in the field b) formulate and, when possible, address questions under the light of re-

cent methodological advances in neuroscience and c) provide a benchmark that will stimulate future cutting edge research.

Die Umsetzung der Europäischen Datenschutz-Grundverordnung (DSGVO) und des BDSG (2018) stellt eine große Herausforderung für Unternehmen dar. Organisation, Dokumente und Prozesse müssen umfassend an die neuen rechtlichen Vorgaben angepasst werden. Dabei zeichnet sich die DSGVO einerseits durch umfassende Regelungen, andererseits aber auch durch sehr abstrakte Vorgaben aus. Die Datenschutzbehörden äußern sich nur sporadisch und dann im Regelfall mit strengen Positionen. Es bleibt also den Unternehmen selbst überlassen, pragmatische und praxistaugliche Lösungen zur Umsetzung der DSGVO-Vorgaben zu entwickeln. Vor diesem Hintergrund richtet sich das Handbuch an alle Datenschutzpraktiker, also Datenschutzverantwortliche im Unternehmen, Datenschutzbeauftragte, Syndizi, Datenschutzberater, Mitarbeiter in Datenschutzbehörden sowie Rechtsanwälte. Es liefert umfassende Lösungen für die Vielzahl an Fragestellungen, die sich im Un-

ternehmen ganz praktisch bei der Einhaltung der DSGVO ergeben. Dabei geht es nicht nur um die Anleitung für eine (einmalige) Umsetzung der neuen DSGVO-Vorgaben. Das vorliegende Handbuch soll genauso als kontinuierlicher Ratgeber bei der täglichen Bewältigung datenschutzrechtlicher Fragen dienen. Einige besondere Themenkomplexe – wie etwa Fragen des Web Trackings oder Customer Relationship Managements – haben für den Datenschutzpraktiker regelmäßig und fortwährend eine überragende Bedeutung. Diese Themenkomplexe werden in eigenen Kapiteln von Experten im jeweiligen Bereich adressiert. Bei den Autoren dieses Handbuchs handelt es sich ausnahmslos um erfahrene Datenschutzpraktiker, die sich in ihrer Arbeit laufend mit den adressierten Themen auseinandersetzen: Dr. Marian Arning, LL.M., Dozent und Rechtsanwalt Dr. Ulrich Baumgartner, LL.M. (King's College London), Rechtsanwalt Cay Lennart Cornelius, Diplom-Jurist Eva Gardyan-Eisenlohr, Rechtsanwältin und Head of Data Privacy, Dr. Tina Gausling, LL.M. (Columbia University), Fachanwältin für IT-Recht Carmen Heinemann, Diplom-Informationsjuristin (FH) Per Mey-

erdierks, Senior Privacy Counsel und Syndikusrechtsanwalt Dr. Flemming Moos, Fachanwalt für IT-Recht Leif Rohwedder, Rechtsanwalt und Senior Legal Counsel Tobias Rothkegel, Rechtsanwalt Dr. Jens Schefzig, Rechtsanwalt Barbara Schmitz, Corporate Data Protection Officer und Syndikusanwältin Dr. Anna Zeiter, LL.M. (Stanford), Rechtsanwältin und Chief Privacy Officer

Learn the fundamentals and foundations of modern organic chemistry with this comprehensive guide *Foundations of Organic Chemistry: Unity and Diversity of Structures, Pathways, and Reactions*, 2nd Edition, is a substantive guide for students beginning their study of organic chemistry and instructors, as well as senior undergraduates and graduate students seeking to further their understanding of the subject. *Foundations of Organic Chemistry* is a serious attempt to show students who want to learn organic chemistry how we know what we know about the subject and to guide them to learn. In this work, the emphasis of the discussion of structures, pathways, and reactions is placed on the original literature and the fundamentals and

use of spectroscopic and kinetic tools. Application of the resulting working knowledge of the substance of organic chemistry will lead the serious student to ask additional questions and, ultimately, to solve problems we face. The book also includes solutions guides for instructors and lecturers, as well as access to a companion website for furthering the reader's knowledge of organic chemistry.

This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources – bioenergy, solar, geothermal, hydropower, ocean and wind energy – as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assess-

ment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector and academic researchers.

This comprehensive and authoritative guide will teach you the DAX language for business intelligence, data modeling, and analytics. Leading Microsoft BI consultants Marco Russo and Alberto Ferrari help you master everything from table functions through advanced code and model optimization. You'll learn exactly what happens under the hood when you run a DAX expression, how DAX behaves differently from other languages, and how to use this knowledge to write fast, robust code. If you want to leverage all of DAX's remarkable power and flexibility, this no-compromise "deep dive" is exactly what you need. Perform powerful data analysis with DAX for Microsoft SQL Server Analysis Services, Excel, and Power BI Master core DAX concepts, including calculated columns, measures, and error handling Understand evaluation contexts and the CALCULATE and CALCULATETABLE functions

Perform time-based calculations: YTD, MTD, previous year, working days, and more Work with expanded tables, complex functions, and elaborate DAX expressions Perform calculations over hierarchies, including parent/child hierarchies Use DAX to express diverse and unusual relationships Measure DAX query performance with SQL Server Profiler and DAX Studio

The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to redesign their operations more effectively. The Handbook of Research on Supply Chain Management for Sustainable Development is a critical scholarly resource that examines academic and corporate interest in sustainability in all facets of business management. Featuring coverage on a wide range of topics such as green supply chains, environmental standards, and production planning, this book is geared toward professionals, researchers, and managers seeking current and relevant research on optimizing supply chains to ensure fair labor practices, lower emissions, and a cleaner envi-

ronment.

On War is a treatise about a military art which Prussian officer Carl Philipp Gottlieb von Clausewitz had been working on for 15 years. It is commonly believed that Clausewitz's treatise had a greater impact on military leaders of the late XIX and XX centuries than any other book. In reality, this book is an overturn in the war theory. The work is notable for its brightness, narration details as well as hard criticism of many war events. The author dedicates a special place in his work to politics, its influence on the war events, the dependence how the war finishes on powers and weaknesses of particular politicians and military leaders. There is a good reason why his famous phrase "the war is the continuation of the politics, but with other, strong arm methods" is still relevant.

Stähle hoher Festigkeit und Härte bieten Leichtbaupotential für Anwendungen im Automobilbau sowie in der Energietechnik, sie gehören jedoch zu den schwer zerspanbaren Werkstoffen. Zur Fertigung leistungsfähiger Zerspanwerkzeuge aus polykristallinem kubischem Bornitrid (PCBN) eröffnet Laserstrahlabtragen mit kurzen und ultrakurzen Pulsen neue Potentiale. Vor diesem

Hintergrund erfolgt in der vorliegenden Arbeit die Erstellung eines methodischen Vorgehens zur Entwicklung von Laserstrahlabtragprozessen. Dieses wird am Beispiel der Prozessentwicklung zur laserbasierten Fertigung von PCBN-Werkzeugen mit geometrisch bestimmter Schneide validiert. Die Anwendung des entwickelten Prozesses führt zum exemplarischen Einsatz der Werkzeuge in der Hartzerspanung.

The outbreak of the pandemic around the world came with national measures to deal with the health emergency that caused and will continue to cause important disruption in education for students, teachers, and policymakers. Digital technologies can provide innovative solutions that can prevent the negative effects of lockdowns of countries and regions on education. It is important to analyze digital solutions and experiences for distance learning and to better understand the available resources and best practices to deal effectively with the challenges of digital learning for both learners and academic staff. It is important that countries promote digital excellence and explore the opportunities that information technologies can provide to education

institutions, especially in the post-pandemic scenario, and the major transformations it will bring to citizens, societies, and economies. The Handbook of Research on Analyzing IT Opportunities for Inclusive Digital Learning explores the new demands of labor markets in the digital economy, how educational institutions can respond to these new opportunities and threats, the development of new teaching and learning methods, and finally, the development of digital skills and competences. It also discusses the challenges and opportunities caused by the pandemic in the area of education and how information technologies can transform education and develop a new workforce with the required digital skills and competences and knowledge to fit the post-pandemic labor market. This book highlights topics including knowledge management systems, learning technologies, personalized learning, and more within the context of diverse student populations. It is a valuable reference tool for academics, researchers, lecturers, decision makers, policymakers, and practitioners interested in new theories, research findings, and case studies for understanding inclusive digital learning and the oppor-

tunities for digital technologies in education.

The Italian-annotated bibliography on tunas, tuna-like and billfish species is a sort of unicum, because for the very first time, it provides annotation in English for all papers published by Italian authors over the centuries in various languages. Taking into account that these species are an essential component of the Italian and Mediterranean culture, thousands of authors published a very high amount of papers since historical times, on various themes and subjects. These large fish species are nowadays not only essential elements of the marine trophic chain, but also important components of human seafood and the related fishery economy. This book makes all these papers internationally available for all scientists, helping them in their research activities and the annotations facilitate the searching work by species and keywords.

Describes the weldability aspects of structural materials used in a wide variety of engineering structures, including steels, stainless steels, Ni-base alloys, and Al-base alloys. Welding Metallurgy and Weldability describes weld failure mechanisms associ-

ated with either fabrication or service, and failure mechanisms related to microstructure of the weldment. Weldability issues are divided into fabrication and service related failures; early chapters address hot cracking, warm (solid-state) cracking, and cold cracking that occur during initial fabrication, or repair. Guidance on failure analysis is also provided, along with examples of SEM fractography that will aid in determining failure mechanisms. Welding Metallurgy and Weldability examines a number of weldability testing techniques that can be used to quantify susceptibility to various forms of weld cracking. Describes the mechanisms of weldability along with methods to improve weldability. Includes an introduction to weldability testing and techniques, including strain-to-fracture and Varestraint tests. Chapters are illustrated with practical examples based on 30 plus years of experience in the field. Illustrating the weldability aspects of structural materials used in a wide variety of engineering structures, Welding Metallurgy and Weldability provides engineers and students with the information needed to understand the basic concepts of welding metallurgy and to interpret the failures in

welded components.

Das Buch hat zum Ziel, den Nutzen von Qualitätsmanagement kritisch zu bewerten und aufzuzeigen, dass übliche Verfahren im Qualitätsmanagement mit der Weiterbildungspraxis und dem professionellen Selbstverständnis der dort Tätigen in Konflikt geraten können. Thematisch werden hierbei Schwerpunkte im Handlungsfeld der Gesundheitsbildung und nachhaltiger Bildung gelegt. Der Inhalt

Erste Annäherungen an das Thema: Beispiele aus der Praxis zur Unschärfe des Qualitätsbegriffs ● Zum Stand der Qualitätsdiskussion in der Weiterbildung ● Zentrale Begriffe ● Ebenen der Qualitätsbetrachtung ● Qualitätsmanagementkonzepte ● Gesetzliche Regelungen ● Kriterien zur Beurteilung von Qualitätskonzepten ● Qualitätsmanagement und Organisationsentwicklung ● Komponenten und Abläufe im Qualitätsmanagement ● Evaluation als Schlüsselement des Qualitätsmanagements in Bildungseinrichtungen ● Weitere zentrale Komponenten des Qualitätsmanagements in der Weiterbildung ● Bilanz und Perspektiven der Qualitätsdiskussion in der Weiterbildung Die Au-

tor/-innen Dr. phil. habil. Dieter Gnahs, apl. Professor an der Universität Duisburg-Essen, war bis 2013 in leitender Funktion beim Deutschen Institut für Erwachsenenbildung (DIE) und ist Mitglied des wissenschaftlichen Beraterkreises von ver.di und IG Metall. Dr. in Eike Quilling (Dipl. Päd.) ist Professorin an der Hochschule für Gesundheit, Bochum.

As urban populations continue to increase it is essential to consider ways of reducing their impact in terms of the use of natural resources, waste production and climate change. The increasing number of people in cities requires new strategies to supply the necessary food with limited provision of land and decreasing resources. This will become more challenging unless innovative solutions for growing and distributing food in urban environments are considered. The scale of modern food production has created and exacerbated many vulnerabilities and the feeding of cities is now infinitely more complex. As such, the food system cannot be considered secure, ethical or sustainable. In the last few years, there has been a rapid expansion in initiatives and projects exploring innovative methods and processes for sustainable

food production. The majority of these projects are focused on providing alternative models that shift the power back from the global food system to communities and farmers improving social cohesion, health and wellbeing. It is therefore not surprising that more people are looking towards urban farming initiatives as a potential solution. These initiatives have demonstrated that urban agriculture has the potential to transform our living environment towards ecologically sustainable and healthy cities. Urban agriculture can also contribute to energy, natural resources, land and water savings, ecological diversity and urban management cost reductions. The impact urban agriculture can have on the shape and form of our cities has never been fully addressed. How cities embed these new approaches and initiatives, as part of new urban developments and a city regeneration strategy is critical. The 2nd International Conference on Urban Agriculture and City Sustainability addressed these challenges and the search for new solutions. The presented papers which form this volume detail research works looking at how urban agriculture can contribute to achieving sustainable cities.

The rapid development of oil palm cultivation feeds many social issues such as biodiversity, deforestation, food habits or ethical investments. How can this palm be viewed as a "miracle plant" by both the agro-food industry in the North and farmers in the tropical zone, but a serious ecological threat by non-governmental organizations (NGOs) campaigning for the environment or rights of local indigenous peoples? In the present book the authors – a biologist and an agricultural economist– describe a global and complex tropical sector, for which the interests of the many different stakeholders are often antagonistic. Oil palm has become emblematic of recent changes in North-South relationship in agricultural development. Indeed, palm oil is produced and consumed in the South; its trade is driven by emerging countries, although the major part of its transformations is made in the North that still hosts the largest multinational agro industries. It is also in the North that the sector is challenged on ethical and environmental issues. Public controversy over palm oil is often opinionated and it is fed by definitive and sometimes exaggerated statements. Researchers are conveying a

more nuanced speech, which is supported by scientific data and a shared field experience. Their work helps in building a more balanced view, moving attention to the South, the region of exclusive production and major consumption of palm oil.

Forms, Formats and the Circulation of Knowledge explores the authority of print in all its shapes in the British book trade (1688-1832). The transdisciplinary volume skilfully recovers the innovations and practices of a disorderly market accommodating a widening audience.

"This book offers research geared toward understanding the Covid-19 outbreak, in particular, has highlighted the necessity for change management in the development of a comprehensive social media communication strategy in the time of crisis. Organizations can no longer afford the effects of misinformation, scaremongering, or trivialization of organizational events, status, or needs. This book will serve as a valuable resource to researchers interested in pandemic studies generally as well as those studying the importance of innovation in managing modern organizations". Bharat Thakkar, CEO, PREMGroup, Inc.,

Wheaton, IL, USA. ** Editor: Bharat S. Thakkar, Ph.D., is CEO of PREMGroup, Inc, a consulting firm in Illinois and an adjunct professor at the Illinois Institute of Technology, Chicago, IL, USA. He has expertise in design of systems packaging, reliability management, and heavy machinery design using reliability principles along with Leadership and Management principles. ** "As the COVID-19 pandemic is upending global culture at various levels, this is a remarkably timely book about how businesses must position themselves for the new reality. Under Dr. Bharat Thakkar's watchful eye, the book's authors offer insights that perhaps no other work could." Mayank Chhaya, Journalist & Writer, Naperville, IL, USA ** "Cultures transcend national borders and bias the way we understand the subjective reality of our existence. Failure to understand, appreciate, and navigate cultural differences is a failure to understanding the symbiotic nature of how we communicate ideas, manage ourselves and businesses, and align ourselves with the physical, psychological, and spiritual needs of our humanity." Kevin Sorbello, Capella University, Minneapolis, MN, USA.

Every year, in response to advancements in technology and new laws in different countries and regions, there are many changes and updates to the body of knowledge required of IT security professionals. Updated annually to keep up with the increasingly fast pace of change in the field, the Information Security Management Handbook is the single most

Includes its Report, 1896-19 .

This book explores the factors that contribute to high corporate growth, presenting a new conceptual model for research into this phenomenon. Building on existing research, the authors present a new conceptual research model that links multidimensional variables, such as entrepreneurial orientation, and human capital, with the perceived availability of different forms of financing for high-growth companies and with the measures that these firms take to overcome financial constraints and thus influence their financial performance. With this model the authors aim to enhance our understanding of the specifics of financing high growth companies and demonstrate how the availability of financial resources is one of the most im-

portant determinants of promoting development and enterprise growth. Empirically tested on a random sample of high-growth companies from Slovenia, the book seeks to make a contribution to research and enhance our understanding of the various factors involved in high growth firms.

Den Wandel begleiten Neu im Bildungsmanagement Die Beschäftigten in Bildungs- und Wissenschaftseinrichtungen sind gegenwärtig mit erheblichen Veränderungen konfrontiert. Der Wandel von bürokratischen Strukturen hin zu modernen unternehmerisch handelnden Bildungseinrichtungen vollzieht sich in einem Umfeld, das durch einen sich verschärfenden Wettbewerb gekennzeichnet ist. Dabei nimmt der Einfluss externer Interessengruppen zu und die öffentliche Aufmerksamkeit, was das Leistungsvermögen und den Umgang mit der neu gewonnenen Autonomie anbelangt, wächst. Von den Beschäftigten wird in Zukunft verlangt, erfolgreiche Bildungsangebote zu entwickeln mit dem Ziel, dass sich die Einrichtungen langfristig am Markt positionieren können. Dieses Buch soll einen Beitrag dazu leisten, die Arbeit in Bildungsorganisationen professionalisieren zu helfen. Studieren-

den und Praktiker auf dem tertiären und quartären Bildungsbereich werden Managementansätze und -konzepte vorgestellt, die ihnen bei der Entwicklung und Vermarktung von Angeboten Unterstützung leisten.

- Rahmenbedingungen des Bildungs- und Wissenschaftsmanagements
- Steuerungs- und Managementsysteme
- Management organisatorischer Kernprozesse
- Qualitätsmanagement und Evaluation
- Management organisatorischer Veränderungen
- Personalmanagement

Die Autorin Prof. Dr. Anke Hanft ist Leiterin des Arbeitsbereichs Weiterbildung und Bildungsmanagement an der Fakultät Bildungs- und Sozialwissenschaften der Universität Oldenburg. Sie ist Herausgeberin der Zeitschrift "Hochschulmanagement" und Vorsitzende der internationalen Steuerungsgruppe der Österreichischen Qualitätssicherungsagentur (AQA).

To address approaches to the respirator approval process in the current landscape for both occupational and non-occupational use of respirators, the National Academies of Sciences, Engineering, and Medicine's Standing Committee on Personal Protective Equipment for Workplace

Safety and Health convened a virtual workshop, *Current Issues in the Assessment of Respiratory Protective Devices: Nontraditional Workers and Public Use* on August 4th, 2020. Additionally, the workshop considered gaps in respiratory protection for outdoor workers and the general public. This publication summarizes the presentation and discussion of the workshop.

This monograph contains recent studies in eco-informatics, promising ideas and new challenges in information management for supporting sustainability in companies and other organization. The scope of this book includes sets of solutions which show different stakeholders' viewpoints on sustainability. In individual chapters, authors discuss the role which Environmental Information Systems (EIS) play in the environmental conscious functioning of enterprise. New models, methods and tools supporting sustainability are presented. Emphasis is placed on the innovative approach to eco-friendly organization and coordination of transport, logistics processes and operations management. The information management and decision making in manufacturing and service organizations is high-

lighted. The scope of this monograph also encompasses topics related to the modeling and monitoring of climate change.

A concise introduction to atmosphere-ocean dynamics at the intermediate-advanced undergraduate level, taking the reader from basic dynamics to cutting-edge topics.

Since the Rio 'Earth' Summit of 1992, sustainable development has become the major policy response to tackling global environmental degradation, from climate change to loss of biodiversity and deforestation. Market instruments such as emissions trading, payments for ecosystem services and timber certification have become the main mechanisms for financing the sustainable management of the earth's natural resources. Yet how effective are they - and do they help the planet and developing countries, or merely uphold the economic status quo? This book investigates these important questions. Providing a comprehensive analysis and the latest research on sustainable development, the authors compare the divergent approaches to emissions trading. Included is a detailed investigation into illegal logging and

the effectiveness of policy responses, with an evaluation of different forest certification schemes. Biodiversity offsets and environmental payments are also explored. Integral to the book are interviews and opinions of the key stakeholders in the political economy of sustainable development. This uniquely comprehensive analysis of the governance quality of different sustainable development mechanisms, unprecedented in its panorama of comparative case studies, is essential reading for all those in the policy, academic and non-governmental communities.

One of the most authoritative works in bacterial taxonomy, this resource has been extensively revised. This five volume second edition has been reorganized along phylogenetic lines to reflect the current state of prokaryotic taxonomy. In addition to the detailed treatments provided for all of the validly named and well-known species of prokaryotes, this edition includes new ecological information and more extensive introductory chapters.

Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035

indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

With the exception of foreign bodies, formerly food contact materials (FCM) were generally not considered a source of food safety concern. During the past decade several issues regarding FCM affected the food supply and caught the attention of industries, national bodies and of course consumers. But is it clear what an FCM is? The chapter presents different classifications of FCM depending on the type of contact, type of material and function. The potential hazards (physical, microbiological, chemical and allergen) associated with FCM and their risk factors are explained according to the type of material (e.g. wood, metal, plastic). The chapter also reviews the main standards used in the field (ISO 22000, BRCIoP and EN 15593) and gives an overview of the main regulations applicable. The chapter finishes with five case studies that bring the reader to reality in the management of FCM food safety.

Food Safety Management: A Practical Guide for the Food Industry, Second Edition continues to present a comprehensive, integrated and practical approach to the management of food safety throughout the production chain. While many

books address specific aspects of food safety, no other book guides you through the various risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks. This new edition provides practical examples of incidents and their root causes, highlighting pitfalls in food safety management and providing key insights into different means for avoiding them. Each section addresses its subject in terms of relevance and application to food safety and, where applicable, spoilage. The book covers all types of risks (e.g., microbial, chemical, physical) associated with each step of the food chain, making it an ideal resource. Addresses risks and controls at various stages of the food supply chain based on food type, including a generic HACCP study and new information on FSMA Covers the latest emerging technologies for ensuring food safety Includes observations on what works and what doesn't on issues in food safety management Provides practical guidelines for the implementation of elements of the food safety assurance system Explains the role of different stakeholders of the food supply