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The life and chemical sciences are in the midst of a period of rapid and revolutionary transformation that will undoubtedly bring societal benefits but also have potentially malign applications, notably in the

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development of chemical weapons. Such concerns are exacerbated by the unstable international security environment and the changing nature of armed conflict, which could fuel a desire by certain States to retain and use existing chemical weapons, as well as increase State interest in creating



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new weapons; whilst a broader range of actors may seek to employ diverse toxic chemicals as improvised weapons. Stark indications of the multi-faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria, and also in more

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targeted chemical assassination operations in Malaysia and the UK. Using a multi-disciplinary approach, and drawing upon an international group of experts, this book analyses current and likely near-future advances in relevant science and technology, assessing the risks of

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their misuse. The book examines the current capabilities, limitations and failures of the existing international arms control and disarmament architecture – notably the Chemical Weapons Convention – in preventing the development and use of chemical weapons. Through the employment of

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a novel Holistic Arms Control methodology, the authors also look beyond the bounds of such treaties, to explore the full range of international law, international agreements and regulatory mechanisms potentially applicable to weapons employing toxic chemical agents, in order to

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develop recommendations for more effective routes to combat their proliferation and misuse. A particular emphasis is given to the roles that chemical and life scientists, health professionals and wider informed activist civil society can play in protecting the prohibition against

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poison and chemical weapons; and in working with States to build effective and responsive measures to ensure that the rapid scientific and technological advances are safeguarded from hostile use and are instead employed for the benefit of us all.

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are the people and places involved over the course of over 90 years of interconnected mining and sale of radium and uranium, finally ending in 1991 with the abandonment of radium paint and medical devices, Soviet nuclear parity, and the Radiation Exposure Compensation



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This Brief defines reliable correlations between the food packaging design and its chemical features in terms of an 'integrated food product' (the synergistic union composed of the edible content and its container). A

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good design, as described in this Brief, implies the best choices from a series of possibilities, taking into account economical and commercial influences or limitations in the production and processing chain and the chemical interactions that can arise between the food containers and

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the contained edible material. This Brief highlights how the different requirements can be combined, while avoiding dangerous food risks originating from the chemical interaction between the container and the product. Different designs are critically analysed with relation to the

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effect on contained foods. The influences and resulting consequences of different possible food packaging designs are highlighted and discussed in selected case studies for some every-day products (like potato chips).

The global fine and speciality

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chemicals industry is a vital segment within the chemical value chain, catering to a multitude of societal and industrial needs. Regulatory, sustainability and consumer forces have been constantly shaping the business fundamentals of this industry. Developing value creation

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strategies, which embed economic, environmental and social sustainability components, will need a comprehensive assessment of business, scientific and technological challenges facing the industry.

Sustainable Value Creation in the Fine and Speciality Chemicals Industry

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assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry. It discusses innovative strategies in feedstocks, R&D, technology, manufacturing, resource management

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and the supply chain as well as the significance of the bio-based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry. Topics covered include:

- Transformation in the fine and speciality chemicals business
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Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry. It will be a valuable resource for chemists and chemical engineers involved in the

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design and development of economically, environmentally and socially sustainable practices for the future.

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contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more

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sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed

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include best practices, project-based education, blended learning and the role of technology, including e-learning, and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high-school levels

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make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experience chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

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The Arctic region contains large amounts of natural resources considered necessary to sustain global economic growth, so it is unsurprising that it is increasingly susceptible to political, economic, environmental, and even military conflicts. This book



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looks in detail at the preconditions and outlook for international cooperation on the development of Arctic petroleum resources, focusing on Norwegian–Russian cooperation in the Barents Sea towards 2025. The authors provide a cross-disciplinary approach including geopolitical,

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institutional, technological, corporate and environmental perspectives to analyse the underlying factors that shape the future development of the region. Three future scenarios are developed, exploring various levels of cooperation and development influenced by and resulting from

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potential political, commercial and environmental circumstances.

Through these scenarios, the book improves understanding of the challenges and opportunities for Arctic petroleum resource development and promotes further consideration of the possible

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outcomes of future cooperation. The book should be of interest to students, scholars and policy-makers working in the areas of Arctic studies, oil and gas studies, energy security, global environmental governance, environmental politics and environmental technology.

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and is now taught across the globe. It explores how a variety of digestive disorders including IBS, Crohn's disease, ulcerative colitis, GERD and dysbiosis, can be resolved with this ground-breaking system. Using in-depth case studies, Paul Michael gives us detailed treatment plans including

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specific diets, manual therapy and the use of targeted plants and supplements. He also offers new insights into the mechanism behind the autoimmune process seen in Crohn's disease and ulcerative colitis from the endobiogenic perspective.

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mutually exclusive, because in the modern world, agriculture involves open fields, straight rows, and machinery to grow crops, while forests are reserved primarily for timber and firewood harvesting. In *Farming the Woods*, authors Ken Mudge and Steve Gabriel demonstrate

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that it doesn't have to be an either-or scenario, but a complementary one; forest farms can be most productive in places where the plow is not: on steep slopes and in shallow soils. Forest farming is an invaluable practice to integrate into any farm or homestead, especially as the need for

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unique value-added products and supplemental income becomes increasingly important for farmers. Many of the daily indulgences we take for granted, such as coffee, chocolate, and many tropical fruits, all originate in forest ecosystems. But few know that such abundance is also available

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in the cool temperate forests of North America. Farming the Woods covers in detail how to cultivate, harvest, and market high-value nontimber forest crops such as American ginseng, shiitake mushrooms, ramps (wild leeks), maple syrup, fruit and nut trees, ornamentals, and more. Along

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with profiles of forest farmers from around the country, readers are also provided comprehensive information on:

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harvesting and utilizing wood products; • the role of animals in the forest farm; and, • how to design your forest farm and manage it once it ' s established. Farming the Woods is an essential book for farmers and gardeners who have access to an established woodland, are looking for

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productive ways to manage it, and are interested in incorporating aspects of agroforestry, permaculture, forest gardening, and sustainable woodlot management into the concept of a whole-farm organism.

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and the place of origin of lignin precursors and of the lignification process. This book discusses as well the formation or biosynthesis of lignin in plants and reviews the structure, isolation, and biosynthesis of lignin. The final chapter deals with producing lignin by the action of

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enzymes. This book is a valuable resource for lignin chemists, scientists, research workers, and botanists.

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