



## Innovation, Dual Use, and Security: Managing the Risks of Emerging Biological and Chemical Technologies (Paperback)

By -

MIT Press Ltd, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book. A framework for assessing the security risks of emerging dual-use technologies and devising tailored governance strategies is proposed and applied to contemporary case studies. Recent advances in disciplines such as biotechnology, nanotechnology, and neuropharmacology entail a dual-use dilemma because they promise benefits for human health and welfare yet pose the risk of misuse for hostile purposes. The emerging field of synthetic genomics, for example, can produce custom DNA molecules for life-saving drugs but also makes possible the creation of deadly viral agents for biological warfare or terrorism. The challenge for policymakers is to prevent the misuse of these new technologies without forgoing their benefits . Innovation, Dual Use, and Security offers a systematic approach for managing the dual-use dilemma. The book presents a decision framework for assessing the security risks of emerging technologies and fashioning governance strategies to manage those risks. This framework is applied to fourteen contemporary case studies, including synthetic genomics, DNA shuffling and directed evolution, combinatorial chemistry, protein engineering, immunological modulation, and aerosol vaccines. The book also draws useful lessons from two historical cases: the development of the V-series nerve agents in...



[READ ONLINE](#)

[ 7.37 MB ]

### Reviews

*If you need to adding benefit, a must buy book. I could comprehended every thing out of this composed e pdf. I am just very happy to tell you that this is the greatest pdf i have study inside my individual existence and could be he finest publication for at any time.*

-- Miss Laurie Waters IV

*Most of these publication is the greatest publication offered. It is actually rally intriguing through reading period of time. You can expect to like just how the article writer create this publication.*

-- Eddie Schuppe