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# Technology Transfer And The University

**Liangchi Zhang, Chunliang Zhang**



## **Technology Transfer And The University:**

*Technology Transfer and the University* Gary W. Matkin, 1990      University Technology Transfer Tom Hockaday, 2020-04-07 Demystifying technology transfer an increasingly important but little understood aspect of research universities mission How do we transfer the brilliance of university research results into new products services and medicines to benefit society University research is creating the technologies of tomorrow in the fields of medicine engineering information technology robotics and artificial intelligence These early stage technologies need investment from existing and new businesses to benefit society But how do we connect university research outputs with business and investors This process Tom Hockaday explains is what university technology transfer is all about identifying protecting and marketing university research outputs in order to shift opportunities from the university into business In this detailed introductory book a comprehensive overview of and guide to the subject Hockaday an internationally recognized technology transfer expert offers up his insider observations opinions and suggestions about university technology transfer He also explains how to develop strategically operate and fund university technology transfer offices while behaving in accordance with the central mission of the university Aimed at people who work in or with university technology transfer offices as well as anyone who wants to learn the basics of what is involved *University Technology Transfer* speaks to a global audience Tackling a complex topic in clear language the book reveals the impressive scale of patenting licensing and spin out company creation while also demonstrating that university technology transfer is a commercial activity with benefits that go well beyond the opportunity to make money      *The Effectiveness of University Technology Transfer* Phillip Phan, Donald S. Siegel, 2013 In recent years there have been numerous studies of the effectiveness of university technology transfer Such technology transfer mechanisms include licensing agreements between the university and private firms science parks incubators and university based startups We review and synthesize these papers and present some pointed recommendations on how to enhance effectiveness Implementation of these recommendations will depend on the mechanisms that universities choose to stress based on their technology transfer strategy For example institutions that emphasize the entrepreneurial dimension of technology transfer must address skill deficiencies in technology transfer offices reward systems that are inconsistent with enhanced entrepreneurial activity and the lack of training for faculty members post docs and graduate students in starting new ventures or interacting with entrepreneurs Universities will also have to confront a set of issues related to ethics and social responsibility as they more aggressively pursue technology commercialization Finally we suggest some possible theoretical frameworks for additional research      University Technology Transfer Shiri M. Breznitz, Henry Etzkowitz, 2017-09-19 Universities have become essential players in the generation of knowledge and innovation Through the commercialization of technology they have developed the ability to influence regional economic growth By examining different commercialization models this book analyses technology transfer at universities as part of a national and regional

system It provides insight as to why certain models work better than others and reaffirms that technology transfer programs must be linked to their regional and commercial environments Using a global perspective on technology commercialization this book divides the discussion between developed and developing countries according to the level of university commercialization capability Critical cases as well as country reports examine the policies and culture of university involvement in economic development relationships between university and industry and the commercialization of technology first developed at universities In addition each chapter provides examples from specific universities in each country from a regional national and international comparative perspective This book includes articles by leading practitioners as well as researchers and will be highly relevant to all those with an interest in innovation studies organizational studies regional economics higher education public policy and business entrepreneurship

**Trends in Technology Transfer at Universities** Clearinghouse on University-Industry Relations,1986  
**The Effectiveness of University Technology Transfer** Phillip Hin Choi Phan,Donald S. Siegel,2006 The Effectiveness of University Technology Transfer reviews the numerous studies of the effectiveness of university technology transfer and presents recommendations on how to enhance effectiveness

**Models and Methods of University Technology Transfer** Samantha R. Bradley,Christopher S. Hayter,Albert N. Link,2013-04-26 Model and Methods of University Technology Transfer reviews existing literature and models on university technology transfer and offers alternative conceptualizations of technology transfer that are more realistic and generalizable  
Technology Transfer and the American Research University Gary Wayne Matkin,1989

**Technology Transfer Via University-industry Relationship** María Isabel Rivera Vargas,2002 First published in 2002 Routledge is an imprint of Taylor Francis an informa company  
The Chicago Handbook of University Technology Transfer and Academic Entrepreneurship Albert N. Link,Donald S. Siegel,Mike Wright,2015-03-09 Universities are now in the business of managing intellectual property portfolios and commercializing discoveries from their laboratories Much of the money universities make from this is in the form of licensing revenue and IPO related wealth However managing intellectual property portfolios is still a very new business for universities and administrators and policymakers are still uncertain about how best to navigate the many practical and fundamental issues that arise Written for both practitioners and academics The Chicago Handbook of University Technology Transfer and Academic Entrepreneurship provides a clear outline of the broad set of new practices and institutions that have sprung up to manage and sell intellectual property from university technology transfer offices and cooperative engineering research centers to vast research parks To determine what makes technology transfer work the question is approached from a variety of perspectives historically internationally and from the perspectives of professors entrepreneurs administrators and regulators Some chapters offer guidelines and examples of how to foster and maintain successful research ventures from various perspectives Others explore how developments in university technology transfer affect the public interest and inform the notion of open innovation and science  
**Building Technology Transfer**

**within Research Universities** Thomas J. Allen, Rory P. O'Shea, 2014-09-18 For the past number of years academic entrepreneurship has become one of the most widely studied topics in the entrepreneurship literature Yet despite all the research that has been conducted to date there has not been a systematic attempt to analyze critically the factors which lie behind successful business spin offs from university research In this book a group of academic thought leaders in the field of technology transfer examine a number of areas critical to the promotion of start ups on campus Through a series of case studies they examine current policies structures program initiatives and practices of fourteen international universities to develop a theory of successful academic entrepreneurship with the aim of helping other universities to enhance the quality of their university transfer programs This book is a valuable resource for university research administrators technology transfer office professionals academic entrepreneurs incubator management officials R D managers venture capitalists researchers policymakers and others involved in the commercialization of intellectual property

**Inventions and Technology Transfer** University of Utah. Technology Transfer Office, 1993 [A Study of Technology Transfer in the University of Wisconsin Biotechnology Center](#) Jamie J. Harazmus, 1991 [Investigation of Technology Transfer from University to Industry in China](#) Shuiyuan Tang, 2008

**University-Industry Technology Transfer in the UK: Emerging Research and Opportunities** Wynn, Martin, 2018-12-21 Since the turn of the century technology transfer and innovation has played an increasingly important role in government policy for reinvigorating and supporting a country's industry This has been fueled by technology transfer from third parties such as universities but due to the rapid evolution of the external environment of technology companies require regular upgrades to information systems and technical infrastructure and adjustments University Industry Technology Transfer in the UK Emerging Research and Opportunities provides innovative insights into how technology transfer has operated in university company projects undertaken in small to medium sized enterprises Highlighting 19 different cases drawn from companies in the regions adjoining the University of Gloucestershire UK from a qualitative case study approach the content within this publication analyzes contract packers the manufacturing industry and research organizations It is a vital reference source for managers business owners education administrators researchers academicians professionals policymakers and graduate level students seeking coverage on topics centered on case examples of technology transfer projects in different industry sectors [An Assessment of Technology Transfer at Michigan's Public Universities](#), 2001

*R&D Management in the Knowledge Era* Tuğrul Daim, Marina Dabić, Nuri Başoğlu, João Ricardo Lavoie, Brian J. Galli, 2019-06-24 This volume explores emerging models methods and tools in the management of research and development R D in the knowledge era with a particular focus on the challenges of the emerging technologies The contributions are organized in five parts Part I Managing Emerging Technologies provides methods and tools to understand the challenges created by the emergence of new technologies Part II Technology and Engineering Management Tools and Policies explores different technology and engineering tools including topics such as product concept development design

selection and adoption using technology roadmaps and bibliometrics Part III Technological Innovation and Entrepreneurship explores R D knowledge transfer and entrepreneurial education Part IV Commercialization of Technological Innovations explores the development and application of the technology transfer process which allows managers to succeed in commercializing the outcomes of R D projects Part V Managing the Engineering Enterprise explores the effect economic decision making leadership styles change management and quality management have on an organization s ability to plan and execute initiatives and projects Research and Development has always played a critical role in the engineering and technology focused industries In an era of big data and smart applications knowledge has become a key enabler for R D Managing R D in the knowledge era requires use of key tools and methods However emerging technologies pose many challenges and cause uncertainties or discontinuities which make the task of managing R D even more difficult This book will examine these challenges and provide tools and methods to overcome them Exploring such industries as automotive healthcare business intelligence energy and home appliances this book is a valuable resource for academics scholars professionals and leaders in innovation R D technology and engineering management

**Engineering Education and Management** Liangchi Zhang, Chunliang Zhang, 2011-11-23 This is the proceedings of the selected papers presented at 2011 International Conference on Engineering Education and Management ICEEM2011 held in Guangzhou China during November 18 20 2011 ICEEM2011 is one of the most important conferences in the field of Engineering Education and Management and is co organized by Guangzhou University The University of New South Wales Zhejiang University and Xi an Jiaotong University The conference aims to provide a high level international forum for scientists engineers and students to present their new advances and research results in the field of Engineering Education and Management This volume comprises 121 papers selected from over 400 papers originally submitted by universities and industrial concerns all over the world The papers specifically cover the topics of Management Science and Engineering Engineering Education and Training Project Engineering Management and Other related topics All of the papers were peer reviewed by selected experts The papers have been selected for this volume because of their quality and their relevancy to the topic This volume will provide readers with a broad overview of the latest advances in the field of Engineering Education and Management It will also constitute a valuable reference work for researchers in the fields of Engineering Education and Management

**Informal University Technology Transfer** Christoph Grimpe, Heide Fier, 2009 **Technology Transfer Systems in the United States and Germany** National Academy of Engineering, Fraunhofer Institute for Systems and Innovation Research, 1997-10-26 This book explores major similarities and differences in the structure conduct and performance of the national technology transfer systems of Germany and the United States It maps the technology transfer landscape in each country in detail uses case studies to examine the dynamics of technology transfer in four major technology areas and identifies areas and opportunities for further mutual learning between the two national systems

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