Contents

Acknowledgments —— VII
About the Author —— XIII
Introduction and How Fusion Can Help You XV
Chapter 1
Art and Music —— 1
Paul Klee: Modern-Primitive Art —— 1
Ravi Shankar: Indo-Euro "Fusion Music" — 2
Salvador Dali: Visualizing Einstein's Relativity and Collaborating with Walt Disney —— 3
Chapter 2
Biomimicry — 5
Desert Greenhouses Inspired by Camel Nostrils and the Namibian Fog-Basking Beetle —— 5
Festo: Elephant-Trunk-Inspired Robotic Arms and Hands — 6
Speedo Sharkskin for Olympic Swimwear and Submarines — 7
Shinkansen: Japan's Kingfisher-Beak-Inspired "Bullet Train" — 8
Slug-Slime-Inspired Surgical Superglue — 9
Whalepower: Whale-Inspired Turbines —— 10
Chapter 3
Consumer Products and Retailing —— 11
Apple and Corning: Gorilla Glass for Car Windshields and Mobile Phones —— 11
Amazon: The Internet Bookstore (and More) —— 12
Coca-Cola: Tasty Medicine —— 13
Lego: Play System —— 15
L'Oréal: The Science of Beauty —— 16
Nike: "Last Foot" Personalization — 17
P&G and NineSigma: Electronic-Polymer Clothing —— 18
PepsiCo: From Osteoporosis to Low-Sodium Treats —— 19
Ralph Lauren: Mass Class —— 20



Ramraj: Velcro Dhotis --- 22 Walmart: Vendor-Managed Inventory — 23 Chapter 4 Entertainment --- 24 Chuck E. Cheese's: The Amusement Park Restaurant — 24 Cirque du Soleil: The Broadway Circus --- 25 Dilbert: Office Fun --- 26 Disney and Pixar: The Technology and Business of Art — 27 Disneyland: Fantasy and Reality for Kids and Adults --- 30 IndianRaga: Technology and Business for the Arts --- 32 Netflix: Mailing and Streaming Videos - 32 Chapter 5 Everyday Inventions —— 34 Fax --- 34 Lawn Mower - 35 Printing Press and the Gutenberg Bible — 36 VELCRO® — 37 Wheeled Luggage -- 38 Wind-Up Radios - 39 Chapter 6 Healthcare --- 40 Aerobics and Jane Fonda's Workout: Integrated Fitness on the World's #1 Home Video --- 40 Aviation Healthcare at Rotterdam Eye Hospital - 41 Coca-Cola Medicine Delivery — 42 Given Imaging: Guided-Missile Gastroenterology — 43 Healthcare Games: The Children's MRI — 44 Minute Clinics: Fast-Food Healthcare — 45 NVIDIA: Gaming for Healthcare — 46 Ritalin: Psycho-Active Drugs for Kids — 47 Chapter 7 Leaders and Organizations --- 49 Bill and Melinda Gates Foundation: High-Tech Humanitarianism — 49 Elon Musk: Tesla and SpaceX — 50 Lean Start-up and Open Innovation: Blending the Best of Start-ups and Mega-Corporations --- 51

NetForm and TrustSphere: Social-Network Mathematics — 52 Satellite Radio, United Therapeutics, and One of the World's Highest-Paid CEOs --- 53 The Tiger Center: The Golden Triangle — 55 **Chapter 8** Science --- 59 Albert Einstein: Energy and Mass, Space and Time —— 59 Charles Darwin: Theory of Evolution — 60 Leonardo da Vinci: Art, Science, and Modern Acoustic Theory — 61 Gregor Mendel: Mathematics + Biology = Genetics — 63 Chapter 9 Services --- 64 Commerce Bank: Fast-Food Financial Services - 64 Dr. Ruth: Sex (Therapy) on the Radio -- 65 Eat Purr Love: Cat Cafés/Dog Cafés and Animal Therapy — 66 Fast-Food Weddings at A Little White Chapel — 67 FedEx: An Envelope in Every (Airline) Seat — 68 Harvard Business School: The Case Method — 69 IDEO and Design Thinking: Design, Technology, and Business — 70 Legal Grounds: The Law-Firm Coffee Shop — 72 StockX: A Stock Market for Sneakers (and More) --- 73 Subway: Healthy Fast-Food --- 74 Chapter 10 Technology --- 76 Apple: The Art of Technology — 76 Atari and Pong: Personal Arcade Games — 77 Google: Academic Citation Rankings for All --- 79 Litterati and Plogging: Ecofriendly Social Media — 80 Microsoft Office: Integrated Words, Numbers, Graphics, and Communication -- 82 NASA: The Hubble Telescope's Shower-Head Mirrors — 82 Pokémon Go and ARQuake: Outdoor Augmented-Reality Gaming — 83 SpaceX: Rocket Recycling --- 84 WWW: Connecting Computers, Information, and Humanity — 85

Chapter 11

Travel and Housing -- 87

Airbnb: Internet Home-Hotels --- 87

BillionBricks: Architecture, Finance, and ICT for the Homeless — 89

Boeing-NASA-Airbus: Manta-Ray Aircraft - 90

Ford and Oldsmobile: Automobiles and Meat-Packing —— 91 GPS: Taking Global-and-Local to a Whole New Level —— 93

Heatwave: The Beautiful Radiator - 94

Termite-Human Habitation — 95

Uber: Internet Taxis --- 97

Conclusions: How You, Too, Can Combine Unlikely Ideas to Create Radical Value —— 99

Open Out - Think Bigger, Feel More - 100

Open In - Discover Deeper - 102

Collect Ideas, People, and More — 105

Sense the Problem/Opportunity . . . The Real One — 107

Fuse - and Re-Fuse - 110

Bibliography --- 121

Index --- 129