

## ***Packing Mars Curious Science Life***

Grausig sind die Anfänge der Medizin: Leichenraub, blutige Operationen wie Kirmesspektakel, Arsen, Quecksilber, Kokain als verschriebene Heilmittel. Mitte des 19. Jahrhunderts ist das Unwissen der Ärzte sagenhaft, wie sie praktizieren, ein einziger Albtraum. Bis ein junger Student aus London mit seinen Entdeckungen alles verändert ... Lindsey Fitzharris erzählt vom Leben dieses Mannes und vom Horror, den ein einfacher Arztbesuch damals bedeutete – schaurig, unterhaltsam, erhellend. Als

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Joseph Lister 1844 sein Studium in London beginnt, ist die medizinische Versorgung der Bevölkerung desaströs: Die Krankenhäuser sind überfüllt und verseucht. Um aufgenommen zu werden, müssen Patienten genug Geld für die eigene Beerdigung mitbringen. In den Operationssälen arbeiten Chirurgen in Straßenklamotten vor schaulustigem Publikum. Warum fast alle Patienten sterben, wie sich Krankheiten ausbreiten, darüber herrscht nicht im Geringsten Einigkeit, nur hanebüchene Theorien. Joseph Lister wird Chirurg, er will ganz praktisch helfen. Und von Neugier und hellem Verstand

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geleitet, entwickelt er eine Methode, die das Sterben vielleicht beenden kann ...

So much to read, so little time? This brief overview of Stiff tells you what you need to know—before or after you read Mary Roach's book. Crafted and edited with care, Worth Books set the standard for quality and give you the tools you need to be a well-informed reader. This short summary and analysis of *Stiff: The Curious Lives of Human Cadavers* by Mary Roach includes: Historical context Chapter-by-chapter summaries Profiles of the characters and places Important quotes Fascinating trivia Glossary

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of terms Supporting material to enhance your understanding of the original work About Stiff: The Curious Lives of Human Cadavers by Mary Roach: Acclaimed journalist Mary Roach's bestselling book Stiff offers an inside look through the through the weird world of human cadavers. This globe-spanning story is deeply informative, surprisingly funny, and occasionally disgusting. These "superheroes," as Roach refers to them, brave high-speed car crashes, gunshots, decomposition in the sun, and other indignities all in the name of advancing science and making life better for the living. The summary and

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analysis in this ebook are intended to complement your reading experience and bring you closer to a great work of nonfiction.

AN AMAZON BEST BOOK OF 2021 What's to be done about a drunken elephant? A monkey caught mugging passersby? A trespassing squirrel? We've never been good at sharing the planet... In the past, when wild animals 'broke the law', they might be given lawyers and put on trial. But now, what's the solution when nature gets in our way? In this fresh, funny and thoroughly researched book, dive into the weird and wonderful moments when humanity and

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wildlife bump up against one another. Follow Mary Roach as she explores laser scarecrows, robo-hawks, human-elephant conflict specialists and monkey impersonators. Travel to the bear-busy back alleys of Aspen, the gull-vandalized floral displays at the Vatican and leopard-terrorized hamlets in the Himalayas, and discover hope for compassionate coexistence.

Whether writing a blog entry or a high-stakes test essay, fiction or nonfiction, short story or argumentation, students need to know certain things in order to write effectively. In *10 Things Every Writer*

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Needs to Know, Jeff Anderson focuses on developing the concepts and application of ten essential aspects of good writing--motion, models, focus, detail, form, frames, cohesion, energy, words, and clutter. Throughout the book, Jeff provides dozens of model texts, both fiction and nonfiction, that bring alive the ten things every writer needs to know. By analyzing strong mentor texts, young writers learn what is possible and experiment with the strategies professional writers use. Students explore, discover, and apply what makes good writing work. Jeff dedicates a chapter to each of the

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ten things every writer needs to know and provides mini-lessons, mentor texts, writing process strategies, and classroom tips that will motivate students to confidently and competently take on any writing task. With standardized tests and Common Core Curriculum influencing classrooms nationwide, educators must stay true to what works in writing instruction. *10 Things Every Writer Needs to Know* keeps teachers on track--encouraging, discovering, inspiring, reminding, and improving writing through conversation, inquiry, and the support of good writing behaviors.



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How Humans Will Settle the Moon, Mars, and Beyond

Jenseits des Äquators

50 Schlüsselideen Astronomie und Kosmologie

Unser Leben auf dem Mars

Was macht der Astronaut, wenn er mal muss?

Joseph Listers Kampf gegen Kurpfuscher, Quacksalber und Knochenklempner

A Galaxy of Astonishing Answers to Your Questions on Spaceflight

*“America’s funniest science writer” (Washington Post) explores the irresistibly strange universe of life*

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*without gravity in this New York Times bestseller. The best-selling author of Stiff and Bonk explores the irresistibly strange universe of space travel and life without gravity. From the Space Shuttle training toilet to a crash test of NASA's new space capsule, Mary Roach takes us on the surreally entertaining trip into the science of life in space and space on Earth.*

*Der Mars - eine fremde Welt, viele Millionen Kilometer von uns entfernt. Aber die Raumsonden Spirit und Opportunity haben den Roten Planeten erreicht und unglaubliche Bilder von dessen Oberfläche zur Erde zurückgesandt. Dieses Buch präsentiert die eindrucksvollsten Aufnahmen - planetarische*

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*Landschaftsfotografie vom Feinsten! - und begleitet sie mit den spannenden Erläuterungen von Jim Bell, dem leitenden Fotografen der Mission. Ein Text-Bild-Band aus erster Hand im großen Sonderformat. Ein "Wow!"-Buch für alle Astro- und Weltraum-Fans. Die Reise der beiden Roboterfahrzeuge Spirit und Opportunity zum Mars und ihre nun schon viele Jahre währende Kundschaftertätigkeit dort zählen zu den aufregendsten Unternehmungen des modernen Raumfahrtzeitalters. Ihre Landung mit einer verwirrenden Vielfalt wissenschaftlicher Instrumente und je einer einmaligen Stereo-Panoramakamera an Bord war der Höhepunkt von Jahren*

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*wissenschaftlicher und technologischer Entwicklungsarbeit. Die Ingenieure hatten erwartet, dass die Kameras auf ihren solarbetriebenen Rovern etwa drei Monate lang Bilder aufnehmen würden. Keiner wagte zu hoffen, dass diese unglaublichen Roboter nach vier Jahren immer noch die Ebenen und Berge des Mars erforschen würden. Bis heute haben sie über 200.000 Bilder nach Hause geschickt; einige benötigten mehrere Tage, bis sie uns durch den Weltraum über die riesige Distanz erreicht haben. Schon zu Beginn der Mission wurde Jim Bell die schwere Aufgabe übertragen, die Welt mit diesen historischen Ansichten zu versorgen. Jedes Farbbild,*

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*das vom Mars zur Erde kam, wanderte zuerst durch sein Notebook, bevor es verschickt oder gedruckt wurde. Jetzt hat er die Auswahl und Bearbeitung dieser Bilder – manche 20.000 Pixel breit – für das großformatige Jahrhundertbuch, das sie verdienen, fertiggestellt. Für die deutsche Ausgabe hat Jim Bell nicht nur ein neues Nachwort verfasst, sondern auch 5 spektakuläre neue Aufnahmen vom Mars aus den letzten Monaten (bis Juli 2007!) hinzugefügt. Vier der atemberaubendsten hyperrealistischen Panoramabildern sind auf großartigen, mehr als einen Meter breiten ausklappbaren Seiten gedruckt. Doch auch Fotos von Mikroskopkameras sind in dem Band*

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*zu sehen: Sie zeigen Nahaufnahmen von fremdartigen und doch vertrauten Felsen und Böden, über die die Rover Spirit und Opportunity gerollt sind. Nie zuvor hat ein menschliches Werkzeug so tiefeschürfende Gedanken über unseren Platz im Universum in uns ausgelöst. Postkarten vom Mars ist ein Meisterstück sowohl der Kunst als auch der Wissenschaft. Zum ersten Mal, seit es Leben auf der Erde gibt, können wir erfahren, wie es ist, auf der Oberfläche eines anderen Planeten zu sein. Jim Bells Buch eröffnet uns dieses einmalige Fenster in Zeit und Raum. "An amazing picture book by the man in charge of the rover mission cameras on the planet's surface. The*

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*first book to give a real experience of being on another planet."*

*Orgasmusmaschinen, Audio-Stimulation, Vaginalkamas oder Gruppenonananie - vor keiner noch so erstaunlichen Versuchsreihe hat die Forschung halt gemacht, um unsere Sexualität zu erforschen. »Bonk« erklärt, was Sexualforschung überhaupt ist, wie sie ihren Anfang genommen hat und zu welch bemerkenswerten Erkenntnissen sie geführt hat. Alles über das, was wir auf unserer Haut tragen - eine einzigartige Geschichte der Stoffe Der Mensch ist das einzige Lebewesen, das Stoffe herstellt - ohne sie wäre die menschliche Entwicklung nicht denkbar. Kassia St*

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*Clair erzählt faszinierend von Hanf, Leinen, oder der Entdeckung der Seide, von den Wikinger-Segeln aus Schafswolle, und dem Weltraumanzug Neil Armstrongs, den er nicht ausziehen brauchte, wenn er auf die Toilette musste. Sie zeigt die Bedeutung von Kleidung für die lokale Wirtschaft und den lokalen Handel, für gesellschaftliche Normen und menschliche Höchstleistungen, die ohne Kunstfasern nicht möglich wären. Von den Binden der Mumien im alten Ägypten, über die anrühigen Seidenkleider Kaiser Neros bis hin zum Schwimmanzug aus Polyurethan, der es Paul Biedermann ermöglichte, Michael Phelps zu schlagen: Kassia St Clair verwebt auf einmalige Weise*



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*faszinierende Geschichten rund um Natur- und Kunstfasern zu einer alternativen*

*Menschheitsgeschichte. Ein packender Stoff!*

*Packing for Mars for Kids*

*Science Fiction and Speculative Fiction*

*The Best American Science and Nature Writing 2011*

*Die fabelhafte Welt der Leichen*

*The Curious Science of Humans at War*

*Ask the Astronaut*

*Die wissenschaftliche Erforschung unseres Alltags*

The author of *Stiff* and *Bonk* explores the irresistibly strange universe of space travel and life without gravity. Space is a world devoid of the things we need to live and thrive: air,

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gravity, hot showers, fresh produce, privacy, beer. Space exploration is in some ways an exploration of what it means to be human. How much can a person give up? How much weirdness can they take? What happens to you when you can't walk for a year? have sex? smell flowers? What happens if you vomit in your helmet during a space walk? Is it possible for the human body to survive a bailout at 17,000 miles per hour? To answer these questions, space agencies set up all manner of quizzical and startlingly bizarre space simulations. As the author discovers, it's possible to preview space without ever leaving Earth. From the space shuttle training toilet to a crash test of NASA's new space capsule (cadaver filling in for astronaut), she takes us on a surreally entertaining trip into the science of life in space and space

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on Earth.

Eine Entdeckungsreise durch unser Universum - vom Urknall bis zur Astrobiologie. In 50 Schlüsselideen Astronomie und Kosmologie erklärt Joanne Baker klar und prägnant die wichtigen Konzepte, großen Entdeckungen und neuesten Theorien der Astronomen und Astrophysiker. Mention it and most of us think of history, of conflicts on foreign soil, of heroism and compromise, of strategy and weapons. But there's a whole other side to the gruesome business of the battlefield. In Grunt, the inimitable Mary Roach explores the science of keeping human beings intact, awake, sane, uninfected and uninfested in the bizarre and extreme circumstances of war. Setting about her task with infectious enthusiasm, she sniffs World War II stink bombs,

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tests earplugs in a simulated war zone and burns the midnight oil with the crew of a nuclear submarine. Speaking to the scientists and the soldiers, she learns about everything from life-changing medical procedures to innovations as esoteric as firing dead chickens at fighter jets. Engrossing, insightful and laugh-out-loud funny, this is an irresistible ride to the wilder shores of modern military life.

Ever wondered what space is really like? Thanks to his 25 years of training for, flying in, consulting on, and writing and speaking about space, astronaut and spacewalker Tom Jones can answer that question and many others. What do you feel on liftoff? What is weightlessness? Where do you sleep in space? Can you see the Great Wall of China? Jones

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answers every question you have ever had about space in Ask the Astronaut. His entertaining blend of wit, personal experience, and technical expertise shines in each answer, and together all the answers illuminate the true space experience from start to finish. His engaging and informative responses remind readers of historic space achievements, acquaint them with exciting new ambitions, make them feel like they have experienced space firsthand, and even inspire an urge to explore space themselves. Jones covers everything from the training process for new astronaut candidates and the physical sensations and challenges of rocketing into orbit to what it's like to live, work, and walk in space. Jones also explores the future of spaceflight, both professional and commercial, in the years

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to come. Ask the Astronaut is a delight for all readers, especially "armchair astronauts" and younger, 21st century space explorers.

The Case For Mars

Quirkologie

Grunt

Based on the Book by Mary Roach

When Nature Breaks the Law

Spacefarers

Space, Exploration and Life on Earth

*What happens when you vomit during a space walk? The bestselling author of Stiff explores the irresistibly strange universe of space travel and life without gravity Space is devoid of the stuff humans need to live: air, gravity, hot*

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*showers, fresh veg, privacy, beer. How much can a person give up? What happens when you can't walk for a year? Is sex any fun in zero gravity? What's it like being cooped up in a metal box with a few people for months at a time? As Mary Roach discovers, it's possible to explore space without ever leaving Earth. From the space shuttle training toilet to a 17,000 mile-per-hour crash test of NASA's space capsule (cadaver stepping in), she takes us on a surreally entertaining trip into the science of living in space.*

*From the beginning of the space age, scientists and engineers have worked on systems to help humans survive for the astounding 28,500 days (78 years) needed to reach another planet. They've imagined and tried to create a little piece of Earth in a bubble travelling through space, inside of*

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*which people could live for decades, centuries, or even millennia. Far Beyond the Moon tells the dramatic story of engineering efforts by astronauts and scientists to create artificial habitats for humans in orbiting space stations, as well as on journeys to Mars and beyond. Along the way, David P. D. Munns and Kärin Nickelsen explore the often unglamorous but very real problem posed by long-term life support: How can we recycle biological wastes to create air, water, and even food in meticulously controlled artificial environments? Together, they draw attention to the unsung participants of the space program—the sanitary engineers, nutritionists, plant physiologists, bacteriologists, and algologists who created and tested artificial environments for space based on chemical technologies of life support—as well as the*



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*bioregenerative algae systems developed to reuse waste, water, and nutrients, so that we might cope with a space journey of not just a few days, but months, or more likely, years.*

*New ways to think in unprecedented times. Named a "must read" by Susan Cain, "endlessly fascinating" by Daniel Pink, and "bursting with practical insights" by Adam Grant. In this accessible and practical book, Ozan Varol reveals nine simple strategies from rocket science that you can use to make your own giant leaps in work and life -- whether it's landing your dream job, accelerating your business, learning a new skill, or creating the next breakthrough product. Today, thinking like a rocket scientist is a necessity. We all encounter complex and unfamiliar problems in our lives. Those who can*

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*tackle these problems -- without clear guidelines and with the clock ticking -- enjoy an extraordinary advantage. Think Like a Rocket Scientist will inspire you to take your own moonshot and enable you to achieve lift-off.*

*Since the beginning of human history Mars has been an alluring dream; the stuff of legends, gods, and mystery. The planet most like ours, it has still been thought impossible to reach, let alone explore and inhabit. Now with the advent of a revolutionary new plan, all this has changed. Leading space exploration authority Robert Zubrin has crafted a daring new blueprint, Mars Direct, presented here with illustrations, photographs, and engaging anecdotes. The Case for Mars is not a vision for the far future or one that will cost us impossible billions. It explains step-by-step how we can use*

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*present-day technology to send humans to Mars within ten years; actually produce fuel and oxygen on the planet's surface with Martian natural resources; how we can build bases and settlements; and how we can one day "terraform" Mars; a process that can alter the atmosphere of planets and pave the way for sustainable life.*

*Summary and Analysis of Stiff: The Curious Lives of Human Cadavers*

*Anleitung zur Schwerelosigkeit*

*Once Upon a Time I Lived on Mars*

*From Spaceships to Microchips*

*New Art and Science Affinities*

*Simple Strategies for Giant Leaps in Work and Life*

*A History of Life Support Systems in the Space Age*

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***'Filled with wonderment and awe ... Greene's eloquent memoir is equal parts escape and comfort.'* Publishers Weekly** A powerful reflection on life in isolation, in pursuit of the dream of Mars. In 2013 Kate Greene moved to Mars. On NASA's first HI-SEAS simulated Mars mission in Hawaii, she lived for four months in an isolated geodesic dome with her crewmates, gaining incredible insight into human behaviour in tight quarters, as well as the nature of boredom, dreams and isolation that arise amidst the promise of scientific progress and glory. Greene draws on her experience to contemplate what makes an astronaut, the challenges of

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***freeze-dried eggs and time-lagged correspondence, the cost of shooting for a Planet B. The result is a story of space and life, of the slippage between dreams and reality, of bodies in space, and of humanity's incredible impulse to explore. From trying out life on Mars, Greene examines what it is to live on Earth. 'In her thoughtful, well-written account of the mission, Greene reflects on what this and other space missions can teach us about ourselves and life on Earth.' Physics Today "America's funniest science writer" (Washington Post) asks the questions children ask in this young readers adaptation of her best-selling***

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***Packing for Mars. What is it like to float weightlessly in the air? What happens if you vomit in your helmet during a spacewalk? How do astronauts go to the bathroom? Is it true that they don't shower? Can farts really be deadly in space? Best-selling Mary Roach has the answers. In this whip-smart, funny, and informative young readers adaptation of her best-selling Packing for Mars, Roach guides us through the irresistibly strange, frequently gross, and awe-inspiring realm of space travel and life without gravity. From flying on NASA's Weightless Wonder to eating space food, Packing for Mars for Kids is chock-full of first-***

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***hand experiences and thorough research. Roach has crafted an authoritative and accessible book that is perfectly pitched to inquiring middle grade readers.***

***Was treibt die Fruchtfliege in der Milchflasche? Warum häuten wir uns, wenn wir die Leber eines Eisbären essen? Wieso war John F. Kennedy selbst im Weißen Haus immer sonnengebräunt? Weshalb sahen die ägyptischen Pharaonen aus wie Außerirdische? Weswegen waren Paganinis Finger schneller als die aller anderen Geiger? Und warum war Einstein eigentlich so schlau? Diese und viele weitere Fragen beantwortet Sam Kean in seinem***

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***neuen Buch. Er entführt den Leser in die wundersame Welt der Genetik und erzählt von faszinierenden Erkenntnissen, die diese Wissenschaft seit dem vorletzten Jahrhundert gewonnen hat. In einem gekonnten Mix aus humorvollen Geschichten und anschaulichen Erklärungen öffnet Sam Kean für uns Nichtwissenschaftler ein verführerisches Tor zu einem elementaren Bereich des Lebens. Aufbruch zum roten Planeten Wir erleben zurzeit eine neue Raumfahrtbegeisterung: Millionen Deutsche haben im vergangenen Herbst die ISS-Mission von Alexander Gerst mitverfolgt, und die Landung der ESA-Sonde***



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***Philae auf einem Kometen war ein Großereignis. Spätestens seit dem Welterfolg von Andy Weirs Bestseller Der Marsianer stellen sich viele Menschen nun die Frage: Wann fliegen wir zum Mars? Und vor allem: Wie kommen wir da hin? Diesen Fragen geht Der Weg zum Mars nach und trägt alles Wissenswerte, konkrete Planungen und die Visionen der Science-Fiction über die bemannte Marsmission zusammen: Wie weit sind wir wirklich auf dem Weg zum Mars? Animal Vegetable Criminal***

***Doppelhelix hält besser  
The Poisoner's Handbook***

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## ***Der erste Fotograf auf dem Roten Planeten*** ***The Curious Science of Life in Space*** ***Black Holes***

*Human curiosity has led us to explore our solar system, landing on the moon and sending spacecraft to study distant planetary objects. The next step in our great adventure is putting humans on Mars, but what will it really take to achieve this? In 2011, Mars One announced its intentions to establish a permanent human settlement on Mars beginning as early as 2024; in 2013 it launched its astronaut-*

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*selection program and received thousands of applications. The highly anticipated Mars One documentary series will provide a window into the captivating details of the crew selection and training process, allowing the whole world to follow along as Mars' first settlers prepare for their mission. Now, with Mars One: Humanity's Next Great Adventure, you can step even further inside the experience of these astronaut pioneers and explore the various human dimensions of Mars One's planned expeditions. Edited by Norbert Kraft, MD,*

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*Mars One's Chief Medical Officer and head of crew selection and training, as well as crew selection and training committee members James R. Kass, PhD, and Raye Kass, PhD, this collection of essays from scientists, psychologists, and more provides a behind-the-scenes look at the process and criteria used to choose candidates, fascinating details about what they'll learn, and predictions about their future lives on Mars. Inside, you'll find in-depth discussions of: The essential skills and training the Mars One*

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*astronauts will need to journey to and then survive on Mars, from technical and medical know-how to the interpersonal skills necessary for working in confined quarters so far from home The challenges of going through the selection and training process while being watched by millions around the world, and what Mars One hopes watching the process will mean for viewers at home Inside information, including images, on the planned Mars One habitats and colonization timeline What settlers can expect on Mars, from daily*

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*work activities in a hostile environment to communication with Earth and options for leisure time The book also includes excerpts from candidate questionnaires, allowing readers to enter the minds of prospective Martians like never before. Equal parts true crime, twentieth-century history, and science thriller, The Poisoner's Handbook is "a vicious, page-turning story that reads more like Raymond Chandler than Madame Curie." —The New York Observer "The Poisoner's Handbook breathes deadly life into the Roaring Twenties."*

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*—Financial Times “Reads like science fiction, complete with suspense, mystery and foolhardy guys in lab coats tipping test tubes of mysterious chemicals into their own mouths.” —NPR: What We're Reading A fascinating Jazz Age tale of chemistry and detection, poison and murder, The Poisoner's Handbook is a page-turning account of a forgotten era. In early twentieth-century New York, poisons offered an easy path to the perfect crime. Science had no place in the Tammany Hall-controlled coroner's office, and*

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*corruption ran rampant. However, with the appointment of chief medical examiner Charles Norris in 1918, the poison game changed forever. Together with toxicologist Alexander Gettler, the duo set the justice system on fire with their trailblazing scientific detective work, triumphing over seemingly unbeatable odds to become the pioneers of forensic chemistry and the gatekeepers of justice. In 2014, PBS's AMERICAN EXPERIENCE released a film based on The Poisoner's Handbook.*



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*Quirkologie ist eine neue Disziplin der Verhaltenspsychologie, die Professor Richard Wiseman seit über zwanzig Jahren betreibt. Mit wissenschaftlichen Methoden untersucht er die erstaunlichsten Aspekte menschlichen Verhaltens: wie unser Vorname unsere Persönlichkeit beeinflusst, warum September-Kinder besser in Sport sind, ob Freitag der 13. tatsächlich eine Gefahr für unsere Gesundheit darstellt - und welches der lustigste Witz der Welt ist."Wiseman hat einen Riecher für populäre Themen und ein bemerkenswertes*

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*Geschick, Fragen auf eine Art anzugehen, wie es noch keiner vor ihm getan hat." Die Zeit*

*Der Zukunftsforscher und preisgekrönte Wissenschaftsjournalist Stephen Petranek erklärt in seinem TED-Book ›Unser Leben auf dem Mars‹, warum es schon in zwanzig Jahren unumgänglich sein wird, dass Menschen auf dem Mars leben. Er zeigt packend und ganz konkret, wie wir mittels bereits bestehender Technik dorthin kommen können und wie wir schon bald Wasser und Sauerstoff aus unterirdischen Eisvorkommen*

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*gewinnen und Gewächshäuser bauen werden, um so die Bedingungen für menschliches Leben auf dem nächsten Verwandten unseres Heimatplaneten zu schaffen. Es wird Leben auf dem Mars geben! Das ist nicht Science-Fiction, die Technologie dafür existiert schon heute.*

*Die Welt der Stoffe*

*Alles über Sex - von der Wissenschaft erforscht*

*Challenging Genres*

*Schluck.*

*Auf Entdeckungsreise durch unseren*

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*Verdauungstrakt*

*Erstaunliches aus der Welt der Genetik*

*Hollyweird Science: The Next Generation*

*Presents a collection of the year's best essays written by American authors that discuss topics in science and nature.*

*Emmerich gehört zu den bekanntesten deutschen Reise- und Abenteuerautoren des beginnenden 20. Jahrhunderts.*

*Dieses Buch führt ihn in die Anden nach Bolivien und Peru.*

*Informative, entertaining and upbeat, this book continues Grazier and Cass's exploration of how technology, science, and scientists are portrayed in Hollywood productions. Both big and small-screen productions are featured and their science content illuminated—first by the authors and*

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*subsequently by a range of experts from science and the film world. Starring roles in this volume are played by, among other things, computers (human and mechanical), artificial intelligences, robots, and spacecraft. Interviews with writers, producers, and directors of acclaimed science-themed films stand side by side with the perspectives of scientists, science fiction authors, and science advisors. The result is a stimulating and informative reading experience for the layperson and professional scientist or engineer alike. The book begins with a foreword by Zack Stentz, who co-wrote X-Men: First Class and Thor, and is currently a writer/producer on CW's The Flash.*

*The annual collection celebrating the finest Australian science writing of the year. How does dust connect the*

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*cosmos with our bed sheets? Why do lobsters do the Mexican Wave backwards? And what makes us feel 'wetness' when there's no such thing as 'wet' nerve receptors? Now in its fifth year, The Best Australian Science Writing 2015 draws on the knowledge and insight of Australia's brightest thinkers in examining the world around us. From our obsession with Mars to the mating habits of fish, this lively collection covers a range of topics and delights in challenging our perceptions of the planet we think we know.*

*Books in a Bag*

*Far Beyond the Moon*

*Chasing the Arts, Sciences, and Technology for Human Transformation*

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*Space Nomads: Set a Course for Mars*

*Eine etwas andere Geschichte der Raumfahrt*

*Murder and the Birth of Forensic Medicine in Jazz Age New York*

*The Best Australian Science Writing 2015*

*A wry and compelling take on the who, how, and why of near-future colonies in space. From bone-whittling microgravity to eye-popping profits, the risks and rewards of space settlement have never been so close at hand. More than fifty years after the Apollo 11 moon landing, why is there so little human presence in space? Will we ever reach Mars? What will it take to become a multiplanet*

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*species, colonizing the solar system and traveling to other stars? Spacefarers meets these questions head on. While many books have speculated on the possibility of living beyond the Earth, few have delved into the practical challenges or plausible motives for leaving the safe confines of our home planet. Christopher Wanjek argues that there is little doubt we will be returning to the Moon and exploring Mars in the coming decades, given the potential scientific and commercial bonanza. Private industry is already taking a leading role and earning profits from human space activity. This can be, Wanjek suggests,*



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*a sustainable venture and a natural extension of earthbound science, business, and leisure. He envisions hotels in low-earth orbit and mining, tourism, and science on the Moon. He also proposes the slow, steady development of science bases on Mars, to be followed by settlements if Martian gravity will permit reproduction and healthy child development. An appetite for wonder will take us far, but if we really want to settle new worlds, we'll need the earnest plans of engineers, scientists, and entrepreneurs. Wanjek introduces us to those planners, who are striving right now to make life in space a*

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*reality.*

*In den vergangenen 150 Jahren wurden von der Entdeckung des Penizillins über die Entschlüsselung der menschlichen DNS bis zum Nachweis des Higgs-Bosons kolossale Fortschritte gemacht. Doch an einer der drängendsten Fragen der Menschheitsgeschichte - Wo liegt der Ursprung der menschlichen Sprache? - scheitert die Wissenschaft bis heute. Das hat, wie Tom Wolfe genüsslich darlegt, führende Forscher von Charles Darwin bis Noam Chomsky jedoch zu keiner Zeit davon abgehalten, grandiose Erfolge zu verkünden, die gar keine waren, Konkurrenten zu*

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*diffamieren, anstatt eigene Fehler einzugestehen, und generell des Kaisers neue Kleider in den schillerndsten Farben zu beschreiben. In Das Königreich der Sprache vertritt Wolfe die These, wonach die Sprache die erste kulturelle Leistung des Menschen und somit nicht mit der Evolutionstheorie oder wissenschaftlicher Systematik zu erklären ist.*

*»Von Zeit zu Zeit erscheinen vor den Fenstern eines Raumschiffs Wunder ...« Millionen haben das Video gesehen, in dem der Astronaut Chris Hadfield singend und Gitarre spielend durch die Raumstation ISS schwebt. Fasziniert*

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*schauen die Menschen seither nach oben: Wie verändert der Blick aus 400 km Höhe die Sicht auf unser Leben? Chris Hadfield nimmt uns mit in schwindelerregende Sphären: Er erzählt von riskanten Manövern und von der Kunst, stets auf das Schlimmste vorbereitet zu sein und zugleich an das Unmögliche zu glauben. Chris Hadfield ist neun Jahre alt, als er im Juli 1969 die Mondlandung live im Fernsehen verfolgt. Augenblicklich weiß er, was er werden will: Astronaut! Mittlerweile hat er an die 4000 Stunden im Weltraum verbracht und gehört zu den erfahrensten Raumfahrern der Welt – zuletzt als Kommandeur der*

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*internationalen Raumstation ISS. Jetzt nimmt er uns mit in den Weltraum: Wir erfahren, wie man überhaupt Astronaut wird (für alle, die den Traum noch nicht aufgegeben haben), was man dafür alles können muss (u.a. Schwimmen!, Toiletten reparieren), wie sich der erste Raketenstart anfühlt (als säße man in einem Container, der von einem riesigen LKW gerammt wird) und was man beim ersten Raumspaziergang beachten muss. Eine realistische, humorvolle, aber auch demütige Liebeserklärung an das Leben auf der Erde und die Wunder des Universums, die uns zeigt, wie viel Bodenhaftung man braucht, um abheben zu*

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können.

*"Since the eighteenth century, astronomers have predicted the existence of black holes. Now, sophisticated technologies are bringing us closer to seeing them in action. Meet the scientists whose work is radically shaping how we understand our universe."*

*Das Königreich der Sprache*

*Der Horror der frühen Medizin*

*Packing for Mars*

*Mars One: Humanity's Next Great Adventure*

*TED Books*

*The Weird Science of the Most Mysterious  
Objects in the Universe*

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### ***BONK***

Mit dem Tod ist keinesfalls alles vorbei. Leichen sind auf vielfältige Weise nützlich, indem sie Forschung und Wissenschaft zur Verfügung stehen. Sie helfen dabei, Autos sicherer zu machen, dienen als Anschauungs- und Übungsobjekte für angehende Ärzte und geben Gerichtsmedizinern wichtige Hinweise, mit denen Verbrechen aufgeklärt werden können. Sie wurden ins All geschossen, haben die ersten

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Guillotinen und sogar die Echtheit des Turiner Grabtuchs getestet. Mary Roach hat die vielfältigen postmortalen Verwendungsformen recherchiert und mit Ärzten, Wissenschaftlern und Leichenbestattern darüber gesprochen, was man mit Leichen alles anfangen kann. Daraus ist ein überaus unterhaltsames, faszinierendes und skurriles Buch entstanden, auch wenn die Hauptakteure in Anatomiesälen, Laboratorien und Krematorien zu finden



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sind.

Neues von der Meisterin der komischen Naturwissenschaften Wir riechen und schlürfen, schmecken, kauen, schlucken. Und dann? Was passiert mit Müsli, Steak, Salat und Cola, wenn sie im Schlund verschwunden sind? Mary Roach, die Spezialistin für das ungewöhnliche in den Naturwissenschaften, nimmt uns mit auf eine höchst unterhaltsame Reise durch den Verdauungsapparat – vom Mund bis zum After –, die keine Frage

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auslasst: Warum mogen wir so gern Knuspriges? Warum verdaut der Magen sich nicht selbst? Wie viel kann man essen, bevor der Magen platzt? Kann uns eine Verstopfung umbringen? (Und ist Elvis Presley vielleicht daran gestorben?) Mary Roach trifft Wissenschaftler, die sich furchtlos mit eher anruchigen Themen befassen, besucht ein Tierfuttertestlabor, schaut dem Magen bei der Arbeit zu und untersucht den Darm als potentiell

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Versteck. Urkomisch und informativ. “America’s funniest science writer” (Washington Post) asks the questions children ask in this young readers adaptation of her best-selling Packing for Mars. What is it like to float weightlessly in the air? What happens if you vomit in your helmet during a spacewalk? How do astronauts go to the bathroom? Is it true that they don’t shower? Can farts really be deadly in space? Best-selling Mary Roach has the

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answers. In this whip-smart, funny, and informative young readers adaptation of her best-selling *Packing for Mars*, Roach guides us through the irresistibly strange, frequently gross, and awe-inspiring realm of space travel and life without gravity. From flying on NASA's *Weightless Wonder* to eating space food, *Packing for Mars for Kids* is chock-full of first-hand experiences and thorough research. Roach has crafted an authoritative and accessible

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book that is perfectly pitched to inquiring middle grade readers. Open Your Mind. Expand Your Universe. Reach for Mars. Imagine a better tomorrow with interstellar art and essays--drawing on the aspirational futurism that fuels *Star Trek*, *The Martian*, and *2001: A Space Odyssey*, renowned contemporary artist Camomile Hixon reminds us that by reaching for the stars, we can transform ourselves and life on Earth. We are on the

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threshold of interplanetary travel: SpaceX just launched the first manned commercial flight to the international space station; NASA's 5th rover landing is due on Mars in 2021. Not since the moon landing in 1969 has space--or the promise of a utopian future for humanity--felt so close. Do we dare to reach for it? Yearning to know the stars has long united humanity and ignited our imaginations. And while here on Earth we grapple with deep

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unrest--economic struggle, political upheaval, gender discrimination, pandemics, racial tensions, climate change--the potential of Mars has sparked a new, universal hope and a common sense of purpose as we fulfill our destiny by moving beyond Earth's orbit. Celebrating the limitless potential of space and the human spirit, Hixon's indelible essays and fantastical works of art invite us to imagine a future where we reach

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together for absolute freedom and prosperity for all on our grand quest for world peace, unconditional love, transcendent experiences, and deeper knowing. Weaving science, history, art, and philosophy with meditations on higher consciousness inspired by the overview effect of seeing Earth from Space, *Space Nomads* is a book of unbridled optimism for the future.

Postkarten vom Mars

Inside the First Human Settlement on



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Mars

Packing for Mars: The Curious Science of Life in the Void

Was wir im All fürs Leben lernen können

Think Like a Rocket Scientist

Ten Things Every Writer Needs to Know

Tagebuch einer Astronautin

Why did Kurt Vonnegut shun being labeled a writer of science fiction (SF)? How did Margaret Atwood and Ursula K. Le Guin find themselves in a public argument about the nature of SF? This volume explores the broad category of SF as a genre, as one that challenges readers, viewers, teachers, and scholars, and then as

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one that is often itself challenged (as the authors in the collection do). SF, this volume acknowledges, is an enduring argument. The collected chapters include work from teachers, scholars, artists, and a wide range of SF fans, offering a powerful and unique blend of voices to scholarship about SF as well as examinations of the place for SF in the classroom. Among the chapters, discussions focus on SF within debates for and against SF, the history of SF, the tensions related to SF and other genres, the relationship between SF and science, SF novels, SF short fiction, SF film and visual forms (including TV), SF young adult fiction, SF comic books and graphic novels, and the place of SF in contemporary public discourse. The unifying thread running through the volume, as with the series, is the role of critical literacy and

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pedagogy, and how SF informs both as essential elements of liberatory and democratic education.

Wenn es beim ä M ü ssen ä mal daneben geht, 14 Tage bei minimaler Hygiene im Raumanzug, seltsam anmutende Stresstests wie das Falten von Kranichen, Fl ü ge im ä Kotzbomber ä , Belastungstests an lebenden und toten Objekten u.a.: salopper und oft ironischer Blick hinter die Kulissen der Hochglanzraumfahrt.

Der Weg zum Mars - Aufbruch in eine neue Welt

~ Dieœ lange Reise