Zombies And Calculus

You’re outnumbered, in fear for your life, surrounded by flesheating zombies. What can save you now? Mathematics, of course. Mathematical Modelling of Zombies engages the imagination to illustrate the power of mathematical modelling. Using zombies as a “hook,” you’ll learn how mathematics can predict the unpredictable. In order to be prepared for the apocalypse, you’ll need mathematical models, differential equations, statistical estimations, discretetime models, and adaptive strategies for zombie attacks—as well as baseball bats and Dire Straits records (latter two items not included). In Mathematical Modelling of Zombies, Robert Smith? brings together a highly skilled team of contributors to fend off a zombie uprising. You’ll also learn how modelling can advise government policy, how theoretical results can be communicated to a nonmathematical audience and how models can be formulated with only limited information. A forward by Andrew Cartmel—former script editor of Doctor Who, author, zombie fan and all-round famous person in science-fiction circles—even provides a genealogy of the undead. By understanding how to combat zombies, readers will be introduced to a wide variety of modelling techniques that are applicable to other real-world issues (biology, epidemiology, medicine, public health, etc.). So if the zombies turn up, reach for this book. The future of the human race may depend on it.

The discovery of calculus in the seventeenth century by Isaac Newton and Gottfried Leibniz, helped usher in a revolution in mathematics and science that had a profound and far-reaching effect on the world. Calculus provided a powerful tool that enabled the fledgling science of physics to break new ground in our understanding of the workings of the natural universe. Indeed, calculus is virtually synonymous with physics as it is the mathematics of infinitesimal change. As the world about us appears to be a continuity punctuated by discrete things, then calculus is vital in understanding the behavior of a quantitative change relative to another, from one instant to the next. The intellectual endeavor of mathematics can be thought of as a tree, with calculus one of its boughs. This bough consisting of two major branches, one entwined about the other-differentiation and integration. This book focuses on the discovery, methods and applications of the mathematics of differentiation. Differential calculus, as opposed to integral calculus, considers variable quantitative relationships to one another in the form of tangents. Techniques in Differentiation is based on material written for high school calculus students. However, the book is suitable for any elementary calculus student at either high school or university level. It aims to give calculus students a deeper understanding of the subject. This is achieved by, in part, providing more historical background and development than is offered by most calculus textbooks. A common failing of many technical textbooks is to skim over mathematical workings that get to some result. Mathematical and scientific textbooks typically assume the student has the required mathematical skill to provide the missing details for themselves. This is an ongoing major complaint of students and can make the study of a mathematics textbook particularly frustrating. The author of Techniques in Differentiation in contrast, provides detailed line-by-line working in proofs and examples. Another complaint of mathematics students is textbooks that provide too few exercises, or overly simple questions with which to practice. The author provides a large number of exercise questions, ranging in level of difficulty from easy to challenging. In addition, Techniques in Differentiation includes the answers to all the questions in the exercises at the end of each chapter. It is particularly irksome when a textbook does not provide answers to exercises-students find it frustrating when they are unable to see if they have adequately mastered the concepts and techniques outlined in a mathematics book. The dedicated student will find in calculus a powerful analytical tool with applications in the physical sciences, engineering and technology. And like all areas of mathematics, it can also be appreciated for its own inherent beauty. Techniques in Differentiation will provide mathematics students with the technical skills with which to explore and appreciate calculus and its applications.

A mother's love for her child is like nothing else in the world. It knows no law, no pity, it dares all things and crushes down remorselessly all that stand in its path. Agatha Christie Amelia Bell is thrust into every mother's worst nightmare. A child who is fatally ill and no one knows of a vaccine that will cure him. Her son was one of the first infected with the virus that changed life and the world as we know it. Her son transformed into a monster with a ravenous appetite for human flesh. Believing he will become healthier if she feeds him what he craves, she enlists the help of her alter ego "Mrs. Kim" to provide what he desires. Mrs. Kim is first introduced in the novel "Winter's Salvation." Both stories take place simultaneously, and it is not necessary to read one before the other.

When Aislinn Amon's father disappears, her mother drags her from New York to Indiana where she is to attend a new boarding school - Source High. At Source High, Aislinn finds herself in a whole other world than what she knew. Everyone has something supernatural about them, including her. Soon, she finds that she's not the normal, rebel, messed up teenage girl she thought she was. Her friends try to help her along the way when trouble comes knocking on her door. People die, she finds herself falling in love with, something she swore she'd never do, and secrets start to form. Can Aislinn cope with everything that's happening? Can she handle the life she's been forced to deal with? Or will she crack under the heavy pressures laid upon her seventeen-year-old shoulders?

The Enhancing Diversity in Graduate Education (EDGE) Program began twenty years ago to provide support for women entering doctoral programs in the mathematical sciences. With a steadfast commitment to diversity among participants, faculty, and staff, EDGE initially alternated between Bryn Mawr and Spelman Colleges. In later years, EDGE has been hosted on campuses around the nation and expanded to offer support for women throughout their graduate school and professional careers. The refereed papers in A Celebration of the EDGE Program’s Impact on the Mathematics Community and Beyond range from short memoirs, to pedagogical studies, to current mathematics

research. All papers are written by former EDGE participants, mentors, instructors, directors, and others connected to EDGE. Together, these papers offer compelling testimony that EDGE has produced a diverse new generation of leaders in the mathematics community. This volume contains technical and non-technical works, and it is intended for a far-reaching audience, including mathematicians, mathematics teachers, diversity officers, university administrators, government employees writing educational or science policy, and mathematics students at the high school, college, and graduate levels. By highlighting the scope of the work done by those supported by EDGE, the volume offers strong evidence of the American Mathematical Society’s recognition that EDGE is "a program that makes a difference.” This volume offers unique testimony that a 20-year old summer program has expanded its reach beyond the summer experience to produce a diverse new generation of women leaders, nearly half of whom are underrepresented women. While some books with a women-in-math theme focus only on one topic such as research or work-life balance, this book's broad scope includes papers on mathematics research, teaching, outreach, and career paths.

Written by three gifted-and funny-teachers, How to Ace Calculus provides humorous and readable explanations of the key topics of calculus without the technical details and fine print that would be found in a more formal text. Capturing the tone of students exchanging ideas among themselves, this unique guide also explains how calculus is taught, how to get the best teachers, what to study, and what is likely to be on exams-all the tricks of the trade that will make learning the material of first-semester calculus a piece of cake. Funny, irreverent, and flexible, How to Ace Calculus shows why learning calculus can be not only a mind-expanding experience but also fantastic fun.

Fiction. Young Adult. Spring break gets wild on the liveliest cruise in the Pacific until the undead crash the party. Eighteen- year-old Sylva Fleischer and her friends raise the dead for a living for police investigations and mourning families. Two years after her high school crush, a hot guy named Brandon, is assumed dead, Sylva's friends convince her to go on a spring break cruise in an effort to suppress her depression over him. But when passengers mysteriously die and reanimate into flesheating zombies like she's never seen before, Sylva plunges into a horrifying struggle between a ship infested with the undead and the scariest thing of all: a second chance with Brandon after she discovers he's still alive. This is a zombie story that eats right to the core and leaves you licking your chops for more. Got zombies? "[Ace] wastes no time immersing us in full, gore-spattered, Technicolor horror... The tension is almost unbearable..."—Leslie Ann Moore "Ace should never write a non-zombie book again. As one Aussie likes to say, this is a ripping yarn."—Ken Hughes

The location is South Central Los Angeles, 1985, and every kid on the block is getting paid in full selling crack cocaine, but not DAIQUAN JOHNSON. He's a slow to learn but good with his hands kind of kid whose dream is to become an engineer one day. DAIQUAN is hard working and doesn't give in easily, but all the determination in the world may not prove enough for a passing grade in a major they said he had no business in. Academic probation, a teenage father, and below average math skills are just part of his problems. DAIQUAN'S worse fear is soon realized when he finds that his confederate battle flag waving Calculus professor, GODDAME has a hatred for the color black. The continuously applied stress-strain curve of life events diverts DAIQUAN'S attention away from higher education while he contemplates a potentially lucrative and illicit offer from his best friend back in the hood, Michael Miller, nicknamed Deadly Paws. But if DAIQUAN decides to challenge the Jim Crow calculus instructor, he must get a perfect score on his final exam or dwell in a world where crack is king.

How can calculus help you survive the zombie apocalypse? Colin Adams, humor columnist for the Mathematical Intelligencer and one of today's most outlandish and entertaining popular math writers, demonstrates how in this zombie adventure novel. Zombies and Calculus is the account of Craig Williams, a math professor at a small liberal arts college in New England, who, in the middle of a calculus class, finds himself suddenly confronted by a late-arriving student whose hunger is not for knowledge. As the zombie virus spreads and civilization crumbles, Williams uses calculus to help his small band of survivors defeat the hordes of the undead. Along the way, readers learn how to avoid being eaten by taking advantage of the fact that zombies always point their tangent vector toward their target, and how to use exponential growth to determine the rate at which the virus is spreading. Williams also covers topics such as logistic growth, gravitational acceleration, predator-prey models, pursuit problems, the physics of combat, and more. With the aid of his story, you too can survive the zombie onslaught. Featuring easy-to-use appendixes that explain the book's mathematics in greater detail, Zombies and Calculus is suitable both for those who have only recently gotten the calculus bug, as well as for those whose disease has advanced to the multivariable stage.

The smell of hope is burning flesh… The howlers are eating each other. What is left of humanity has a chance to breathe at last. Each group that forms has to consider how they will begin anew. They must come together on how to take care of the remaining monsters, grow food, teach kids, and deal with their dead…or fall apart in the pitted wasteland left to them by the zombie apocalypse. Can humanity get it right this time? Or will the last human become The Last Zombie?

Life in lower class as offspring of a notorious thief was simple for the Quartar daughters until accidental mishaps with the other classes of society turn their dirt poor lives around for worse and better. Eight young women are taken from the slums into the high class world they never understood only at first to find betrayal, suffering, scandal, revenge and corruption. Then, before they know it they are wrapped in the grandest scandal their country of Galli has ever seen. The kingdom of Cretaine is trying to overthrow the corrupted kingdom of Galli. The Quartar family must betray their world in order to save Galli from a brutal civil war.

"Boomstick. Samurai bat. Motorcycle leather. And the will to live amongst the unliving. Augustus Berry lives a day-to-day existence comprised of waking up, getting drunk, and preparing for the inevitable day when "they" will come up the side of his mountain and penetrate his fortress. Living on the outskirts of a city and scavenging for whatever supplies remain since the demise of civilization, Gus knows that his next visit to undead suburbia could be his last. Not only does he face a corpse-infested urban hell, human scavengers, and unending loneliness, but now a

new mystery has risen... The undead are disappearing from the streets. A force is gathering, beyond the mountain man's wildest nightmares, even more relentless and terrifying than the roaming tides of dead flesh. And it's preparing to hunt." -- Back cover.

The year's finest mathematical writing from around the world This annual anthology brings together the year’s finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, The Best Writing on Mathematics 2020 makes available to a wide audience many articles not easily found anywhere else—and you don’t need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday aspects of math, and take readers behind the scenes of today’s hottest mathematical debates. Here, Steven Strogatz reveals how calculus drives advances in virology, Paul Thagard argues that the power of mathematics stems from its combination of realistic and fictional qualities, and Erica Klarreich describes how Hao Huang used the combinatorics of cube nodes to solve a longstanding problem in computer science. In other essays, John Baez tells how he discovered the irresistible attractions of algebraic geometry, Mark Colyvan compares the radically different explanatory practices of mathematics and science, and Boris Odehnal reviews some surprising properties of multidimensional geometries. And there’s much, much more. In addition to presenting the year’s most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

THE AMERICAN EDITION Satan is being outsourced. According to the Powers That Be, Hell isn't hellish enough, and Satan is given seven days to figure out how to bring back the fire and brimstone days of Hell's fury. The Devil takes on human form-a ramshackle, disease ridden body-and sets out on a road trip exploring new and novel miseries of the human condition to save his job. From L.A. to Miami, Satan, accompanied by Eustice Seeney, the only man who managed to escape Hell twice (and live to never shut up about it), some bent doctors, an average medium femme fatale with a Tarot tattoo, and an angelic escort service hit the road. Satan manages to finagle his way into one mess of life's affairs after another culminating in an explosive finale revealing who or what puts the lighting in our dreams, and begs the question of who would rid the world of the Devil they know?

Vampires, zombies, werewolves and mad scientists are just a few of the creatures you will meet in Things In The Basement: A History of Halloween Horrors. From the ancient Celtic rituals of Samhain, through the Salem Witchcraft Trials, to modern Zombie outbreaks, this fascinating book examines the history of all things Halloween.Inside, you'll find the stories of Halloween, Trick or Treating, Aliens, Black Cats, Devils, Fortune Telling, Frankenstein's Monster, Ghosts, Ghouls, Goblins, Headless Horsemen, Jack O'Lanterns, Mad Scientists, Mad Slashers and Psychos, Men In Black, Mummies, Robots, Scarecrows, Skeletons, Vampires, Werewolves, Witches and Zombies.Marketing studies show that seventy percent of Americans celebrate Halloween in some fashion. Overall, it's the third most popular Holiday, behind Christmas and Thanksgiving. In 2011, Americans collectively spent nearly $7 billion on costumes, candy and decorations. And if Halloween reflects a general American love of horror, with all the books, movies and games, the total moves to the tens of billions. The “zombie industry” alone generated some $6 billion in 2011.In many ways, Halloween is the quintessential American Holiday. Halloween's traditions, activities, imagery and stories are -- like American culture in general -- a mishmash of ideas from across the world, brought here by successive waves of immigrants. Add to those a little homegrown American inventiveness and creativity and therein lies the modern Halloween celebration. Things In The Basement: A History of Halloween Horrors is a exploration of Halloween's origins and of the horrors that keep us up at night.

The sequel to How to Ace Calculus, How to Ace the Rest of Calculus provides humorous and highly readable explanations of the key topics of second and third semester calculus-such as sequences and series, polor coordinates, and multivariable calculus-without the technical details and fine print that would be found in a formal text.

Depictions of the zombie apocalypse continue to reshape our concept of the walking dead (and of ourselves). The undead mirror cultural fears--governmental control, lawlessness, even interpersonal relationships--exposing our weaknesses and demanding a response (or safeguard), even as we imagine ever more horrifying versions of post-apocalyptic life. This critical study traces a shift in narrative focus in portrayals of the zombie apocalypse, as the living move from surviving hypothetical destruction toward reintegration and learning to live with the undead.

At their excavations high in the Taurus Mountains, archaeologists James and Arla are poised to discover the secret of what caused the Late Bronze Age Collapse and the destruction of the Hittite Empire in 1200 BC. Little do they know that in so doing they have placed themselves and their team in mortal danger. Their search for answers uncovers a horrifying past, a sinister secret society and an ancient evil they cannot fight! Two Hittite children, Ani and Purdu, leave their farm to watch a parade of returning soldiers in their local town, only to find it overrun by an evil beyond all nightmares. Returning home, they find their farm destroyed by the same horror. Their flight to safety leads them to an unlikely friend and guardian, and on a terrifying journey north to the great capital of Hattusha. Michael, a pharmacist in a Central Washington hospital, is the only survivor of a bizarre and brutal attack by a sick patient that leaves several doctors dead. Fleeing the scene in terror, he soon finds himself accused of the murders. Desperate to prove his innocence, Michael turns to his IT genius friend Nathan for help. Michael and Nathan uncover much more than they bargained for - a deadly disease sweeping through the city, and a secret society determined to silence them and any that stand in their way.

Enjoy 20 limited-detail illustrations, designed for those who would rather keep it simple. Each page was hand-drawn and edited by K J Kraemer, with you in mind. If you don't want to spend days on a project or just want room to get creative, this adult coloring book is for you!

This is the first volume of an integrated precalculus - calculus textbook. This first volume goes up through differentiation of polynomial, exponential and logarithmic functions while the second volume covers trigonometry and the calculus of trig functions, the fundamental theorem of calculus, integration, series, and differential equations.The textbook is written in conversational style with the goal of being readable by its students.

The zombie has cropped up in many forms--in film, in television, and as a cultural phenomenon in zombie walks and zombie awareness months--but few books have looked at what the zombie means in fiction. Tim Lanzendörfer fills this gap by looking at a number of zombie novels, short stories, and comics, and probing what the zombie represents in contemporary literature. Lanzendörfer brings together the most recent critical discussion of zombies and applies it to a selection of key texts including Max Brooks's World War Z, Colson Whitehead's Zone One, Junot Díaz's short story "Monstro, " Robert Kirkman's comic series The Walking Dead, and Seth Grahame-Smith's Pride and Prejudice and Zombies. Within the context of broader literary culture,

Lanzendörfer makes the case for reading these texts with care and openness in their own right. Lanzendörfer contends that what zombies do is less important than what becomes possible when they are around. Indeed, they seem less interesting as metaphors for the various ways the world could end than they do as vehicles for how the world might exist in a different and often better form.

The Far Lands is a hidden area located at the very edge of Minecraft’s outer borders, unknown to normal users. There, the life of a young boy named Watcher is suddenly turned upside down when his village is destroyed by the vile zombie warlord Tu-Kar. Watcher and a handful of his friends vow to save those who were captured during the devastating battle and bring the zombie leader to justice. But along the way, they’ll uncover a terrifying secret about the monsters in the Far Lands, one that could change Minecraft forever.The Rise of the Warlords series is an interactive Minecraft adventure like never before, giving fans the option to play along in Minecraft as they read on custom Far Lands worlds exclusively designed by bestselling author Mark Cheverton.

What's so funny about math? Lots! Especially if you're mathematically bent. In the world of Colin Adams, differential equations bring on tears of laughter. Hollywood producers hire algebraic geometers to punch up a script. In this world, math and humor are synonymous. Riot at the Calc Exam is a proof of this fact. A collection of humorous math stories, this book gives a window into mathematics and the culture of mathematicians. Appropriate for mathematicians, math students, math teachers, lay people with an interest in mathematics, and indeed everyone else. This book is a romp through the wild world of mathematics.

The author's goal for the book is that it's clearly written, could be read by a calculus student and would motivate them to engage in the material and learn more. Moreover, to create a text in which exposition, graphics, and layout would work together to enhance all facets of a student's calculus experience. They paid special attention to certain aspects of the text: 1. Clear, accessible exposition that anticipates and addresses student difficulties. 2. Layout and figures that communicate the flow of ideas. 3. Highlighted features that emphasize concepts and mathematical reasoning including Conceptual Insight, Graphical Insight, Assumptions Matter, Reminder, and Historical Perspective. 4. A rich collection of examples and exercises of graduated difficulty that teach basic skills as well as problem-solving techniques, reinforce conceptual understanding, and motivate calculus through interesting applications. Each section also contains exercises that develop additional insights and challenge students to further develop their skills.

Kiss My Math meets A Tour of the Calculus Jennifer Ouellette never took math in college, mostly because she-like most people-assumed that she wouldn't need it in real life. But then the English-major-turned-award-winning-science-writer had a change of heart and decided to revisit the equations and formulas that had haunted her for years. The Calculus Diaries is the fun and fascinating account of her year spent confronting her math phobia head on. With wit and verve, Ouellette shows how she learned to apply calculus to everything from gas mileage to dieting, from the rides at Disneyland to shooting craps in Vegas-proving that even the mathematically challenged can learn the fundamentals of the universal language.

This text examines both discrete and continuous random variables, assuming a knowledge of one semester of calculus.

This Halloween 2013 release of short stories by multiple authors is full of all things zombie. Authors you know and love, plus some new writers, will take you to the land of the walking dead. Included are new POV's and beginning chapters of new series. Authors who contributed to this collection are: C. M. Wright, S. Cu'Anam Policar, John Stagman, Lee Ryder, GB Banks, Dovey Mayali Cralk, Kelly J. Erickson, Timothy Benoit, Lizbeth Fallon, Mark Mackey, Janiera Eldridge, and Noel Craske. All proceeds from this story collection will go to help those affected by Orphan Diseases. More information about Orphan Diseases can be found at the links in the back of the book.

From the bestselling author of the Guardian Trilogy comes a new romantic suspense... On an ordinary day in early September, Kennedy Shaw leaves for school unaware that within a few minutes the world she knows will be gone - succumbed to an outbreak of epidemic proportions. After finding a safe haven inside the security of her enclosed high school, she learns that four others have survived, one being a bold, mysterious transfer student from Texas whose unruffled demeanor harbors more than a cool interest in her. As they struggle to survive the dead fighting their way inside, will Kennedy discover there is more to life than survival? And will she and the others find a way to live in this terrifying new world?

'I haven't had this much fun learning math since I watched the Count on Sesame Street when I was three. And the Count never talked about log flumes or zombies' New York Times 'If, like me, you love the neatness of calculus but never appreciated its applications or the colourful characters who have used it through history, then these diaries are well worth a read' New Scientist Jennifer Ouellette never took maths in the sixth form, mostly because she - like most people - assumed that she wouldn't need it in real life. But then the English graduate turned award-winning-science writer had a change of heart and decided to revisit the baffling equations and formulas that had haunted her for years. The Calculus Diaries is the fun and fascinating account of the year spent confronting her number-phobia head on. With real wit and verve, Ouellette shows how she learned to apply calculus to everything from petrol mileages to dieting, from rollercoaster rides to shooting cards in Las Vegas - proving that anyone can learn the fundamentals of maths' universal language and make the world a lot more comprehensible. Who knew that numbers could be a woman's best friend?

Dustin is a seventeen-year-old young man who finds out that his girlfriend, Sandy

In the graveyard of economic ideology, dead ideas still stalk the land. The recent financial crisis laid bare many of the assumptions behind market liberalism--the theory that market-based solutions are always best, regardless of the problem. For decades, their advocates dominated mainstream economics, and their influence created a system where an unthinking faith in markets led many to view speculative investments as fundamentally safe. The crisis seemed to have killed off these ideas, but they still live on in the minds of many--members of the public, commentators, politicians, economists, and even those charged with cleaning up the mess. In Zombie Economics, John Quiggin explains how these dead ideas still walk among us--and why we must find a way to kill them once and for all if we are to avoid an even bigger financial crisis in the future. Zombie Economics takes the reader through the origins, consequences, and implosion of a system of ideas whose time has come and gone. These beliefs--that deregulation had conquered the financial cycle, that markets were always the best judge of value, that policies designed to benefit the rich made everyone better off--brought us to the brink of disaster once before, and their persistent hold on many threatens to do so again. Because these ideas

will never die unless there is an alternative, Zombie Economics also looks ahead at what could replace market liberalism, arguing that a simple return to traditional Keynesian economics and the politics of the welfare state will not be enough--either to kill dead ideas, or prevent future crises. In a new chapter, Quiggin brings the book up to date with a discussion of the re-emergence of pre-Keynesian ideas about austerity and balanced budgets as a response to recession.

“[The essays] usefully, insightfully, and often ingeniously, demonstrate how a wide range of existing theoretical work on monstrosity can be productively employed in a variety of classroom contexts.”—Sean Moreland, University of Ottawa. “A strong collection that is truly pedagogical insofar as it provides concrete tools...syllabi, assignments, etc....for educators of all levels. It also folds in scholarship, as the two go hand-in-hand.—Lisa Nevarez, Siena College. Exploring the pedagogical power of the monstrous, this collection of new essays describes innovative teaching strategies that use our cultural fascination with monsters to enhance learning in high school and college courses. The contributors discuss the implications of inviting fearsome creatures into the classroom, showing how they work to create compelling narratives and provide students a framework for analyzing history, culture, and everyday life. Essays explore ways of using the monstrous to teach literature, film, philosophy, theater, art history, religion, foreign language, and other subjects. Some sample syllabi, assignments, and class materials are provided.

In the not too distant future, an ancient bacterium is discovered by a group of scientists in the depths of the Amazon River basin. Found to have miraculous healing powers on the human brain, it fills the research team, led by noted Neurologist Dr. Lemuel Sanderson, with tremendous hope. That is until something goes terribly wrong. An unknown force is creating an army of undead bent on the destruction of the human race. Dr. Sanderson, with the assistance of an eccentric billionaire, sets out to track down one of his former test subjects. One he firmly believes holds the key to putting an end to this nightmare. Major Charles "Butch" Bradley has been entrusted with the evacuation of Washington D.C. Along the way he rescues a group of college students, a mother and her two children, and a stubborn outdoorsman with a penchant for blowing things up. He is now responsible for their safety as he and his men navigate this dangerous new world, looking for a safe haven. As events unfold, the Major and Dr. Sanderson find themselves on a collision course whose outcome may determine the fate of humanity.

The world is infected and humanity is reduced to creatures of vicious insanity. Doctor Thorn's rescue by a group of young survivors is just the beginning of their nightmarish journey to survive. In this apocalyptic landscape, humankind has one final hope that rests on the strength and determination of 10 young men and women.

A virus similar to the Black Death outbreak has struck England. Mrs. Hawkins soon learns there are things worse than death. The dead have come back to life, and they are hungry. Jim Hawkins is on his way home with treasure in the belly of the Hispaniola. Captain Smollett is back in charge of the ship, and Long John Silver has agreed to stand trial at home, if only for the chance to make it home. Wanting only to save his mother and seek sanctuary, Jim realizes survival comes down to instinct and sacrifice in this continuation of Stevenson's timeless classic, Treasure Island ....

Matt Johnson had a life he was happy enough with. Could he learn to be happy with his death as well? This zombie story is written from his point of view-- from normal, every-day security guard, to brain-eating, mindless zombie.

Monster studies, dystopian literature and film studies have become central to research on the now-proliferating works that give voice to culture-specific anxieties. This new development in scholarship reinforces the notion that the genres of fantasy and science fiction call for interpretations that see their spaces of imagination as reflections of reality, not as spaces invented merely to escape the real world. In this vein, Displacing the Anxieties of Our World discusses fictive spaces of literature, film, and video gaming. The eleven essays that follow the Introduction are grouped into four parts: I. “Imagined Journeys through History, Gaming and Travel”; II. “Political Anxieties and Fear of Dominance”; III. “The Space of Fantastic Science and Scholarship”; and IV. “Spaces Natural and Spaces Artificial”. The studies produce a dialogue among disciplinary fields that bridges the imagined space between sixteenth-century utopia and twenty-first century dystopia with analyses penetrating fictitious spaces beyond utopian and dystopian spheres. This volume argues, consequently, that the space of imagination that conjures up versions of the world's frustrations also offers a virtual battleground – and the possibility of triumph coming from a valuable gain of cognizance, once we perceive the correspondence between spaces of the fantastic and those of the mundane.

The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, The Best Writing on Mathematics 2016 makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here Burkard Polster shows how to invent your own variants of the Spot It! card game, Steven Strogatz presents young Albert Einstein's proof of the Pythagorean Theorem, Joseph Dauben and Marjorie Senechal find a treasure trove of math in New York's Metropolitan Museum of Art, and Andrew Gelman explains why much scientific research based on statistical testing is spurious. In other essays, Brian Greene discusses the evolving assumptions of the physicists who developed the mathematical underpinnings of string theory, Jorge Almeida examines the misperceptions of people who attempt to predict lottery results, and Ian Stewart offers advice to authors who aspire to write successful math books for general readers. And there's much, much more. In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor, Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.