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Midnight train rides, head-on freight collisions—there is never a dull moment when it comes to trains. Take a look at America's biggest railroads and meet the thunderous personalities who operate them. In *Last Train to Texas*, author Fred W. Frailey examines the workings behind the railroad industry and captures incredible true stories along the way. Discover how men like William "Pisser Bill" F. Thompson swerve from financial ruin, bad merger deals, and cutthroat competition, all while racking up enough notoriety to inspire a poem titled "Ode to a Jerk." Bold, savvy, and ready for a friendly brawl, the only thing louder and more thrilling than these men are the trains that they handle. Come along with Frailey as he travels the world, one railroad at a time. Whether it's riding the Canadian Pacific Railway through a blizzard, witnessing a container train burglary in the Abo Canyon, or commemorating a poem to Limerick Junction in Dublin, Ireland, Frailey's journeys are rife with excitement and the occasional mishap. Filled with humorous anecdotes and thoughtful insights into the railroading industry, *Last Train to Texas* is an adventure in every sense of the word.

Sometimes we're all cranky, and that's okay! *Cranky Right Now* shows kids how to deal with those cranky days. *Cranky Right Now* brings a much-needed message to kids: sometimes we're all cranky. Maybe we're tired, we're hungry, or we're just feeling grumpy. Dealing with emotions can be hard. *Cranky Right Now* is a fun and funny ride through the ups and downs of being cranky, helping kids process difficult feelings, frustrating relationships, and things that just make them mad. Award-winning author Julie Berry talks about reasons kids can feel cranky and how to recognize those feelings and acknowledge them. She then gives simple practices for moving through crankiness. She shows that it's okay to be in a bad mood sometimes—just not to take it out on others—and that cranky days will eventually give way to happy ones. A companion volume to *Happy Right Now*, with Holly Hatam's bright and playful illustrations, *Cranky Right Now* helps you embrace, understand, and move through cranky in a whole new way.

? Abraham Lincoln's presidency was bookended by a pair of dramatic railroad trips through the state of New York. His first term began with a pre-inaugural railway tour--his second ended with a funeral train. Each was a five-day crossing of the Empire State. These two journeys allowed thousands of ordinary Americans first to celebrate, and later to mourn, the great president, and became indelibly etched in the memories of those who had the opportunity to stand along parade route. Drawing on newspaper accounts, memoirs and diaries, this book brings to life the two epic and unique moments in both New York's and the nation's history.

The Method of Moments in Electromagnetics, Third Edition details the numerical solution of electromagnetic integral equations via the Method of Moments (MoM). Previous editions focused on the solution of radiation and scattering problems involving conducting, dielectric, and composite objects. This new edition adds a significant amount of material on new, state-of-the-art compressive techniques. Included are new chapters on the Adaptive Cross Approximation (ACA) and Multi-Level Adaptive Cross Approximation (MLACA), advanced algorithms that permit a direct solution of the MoM linear system via LU decomposition in compressed form. Significant attention is paid to parallel software implementation of these methods on traditional central processing units (CPUs) as well as new, high performance graphics processing units (GPUs). Existing material on the Fast Multipole Method (FMM) and Multi-Level Fast Multipole Algorithm (MLFMA) is

also updated, blending in elements of the ACA algorithm to further reduce their memory demands. The Method of Moments in Electromagnetics is intended for students, researchers, and industry experts working in the area of computational electromagnetics (CEM) and the MoM. Providing a bridge between theory and software implementation, the book incorporates significant background material, while presenting practical, nuts-and-bolts implementation details. It first derives a generalized set of surface integral equations used to treat electromagnetic radiation and scattering problems, for objects comprising conducting and dielectric regions. Subsequent chapters apply these integral equations for progressively more difficult problems such as thin wires, bodies of revolution, and two- and three-dimensional bodies. Radiation and scattering problems of many different types are considered, with numerical results compared against analytical theory as well as measurements.

The publication is an international standard on the design and operation of an efficient and accurate vital statistics system at national level. It provides guidelines on collection, compiling and disseminating vital statistics. More specifically it contains (a) basic principles for a vital statistics system; (b) uses of vital statistics and civil registration records; (c) topics to be covered in a vital statistics system; (d) sources of vital statistics and how they function; (e) quality assurance in the vital statistics system and (f) strategies in improving civil registration and vital statistics systems in countries. It also informs policy makers and the general public on the importance of vital statistics and hence further improving the vital statistics system.

The story of "overnight operation of sleeping cars."

Lydia Riverthane has always dreamed of being a professional wrassler, the greatest of all fighters in the kingdom of Grimslade. There are just a few pesky things standing between her and the big tournament at Wrassle Castle. THERE'S ONLY ONE WAY LYDIA CAN SAVE HER BROTHER—WRASSLING! Lydia Riverthane has always dreamed of being a professional wrassler, the greatest of all fighters in the kingdom of Grimslade. Growing up in the shadow of Wrassle Castle, where her older brother routinely racks up championship belts, has only fueled her competitive fire. But when her brother is mysteriously arrested for treason, Lydia and her friends must find a way into the year-end tournament. There she can win back his freedom the only way she knows how...wrassling! Book 1 of the three volume series of original graphic novels.

A variety of programming models relevant to scientists explained, with an emphasis on how programming constructs map to parts of the computer. What makes computer programs fast or slow? To answer this question, we have to get behind the abstractions of programming languages and look at how a computer really works. This book examines and explains a variety of scientific programming models (programming models relevant to scientists) with an emphasis on how programming constructs map to different parts of the computer's architecture. Two themes emerge: program speed and program modularity. Throughout this book, the premise is to "get under the hood," and the discussion is tied to specific programs. The book digs into linkers, compilers, operating systems, and computer architecture to understand how the different parts of the computer interact with programs. It begins with a review of C/C++ and explanations of how libraries, linkers, and

Makefiles work. Programming models covered include Pthreads, OpenMP, MPI, TCP/IP, and CUDA. The emphasis on how computers work leads the reader into computer architecture and occasionally into the operating system kernel. The operating system studied is Linux, the preferred platform for scientific computing. Linux is also open source, which allows users to peer into its inner workings. A brief appendix provides a useful table of machines used to time programs. The book's website (<https://github.com/divakarvi/bk-spca>) has all the programs described in the book as well as a link to the html text.

A fully illustrated survey of Iowa's railroad experience.

The Industrial Revolution that began in Great Britain in the mid-seventeenth century transformed the British economy—and later the economies of Western Europe and the U.S.—from a rural, agricultural system into an industrial society, centered around the factory system of mass production and specialized labor. The right mix of social, political and legal conditions in Britain at the time led to the discovery of labor. The right mix of social, political and legal conditions in Britain at the time led to the discovery of fresh sources of power and energy, and to advances in agriculture, manufacturing, communication and transportation. Notable results included the steam engine, which made possible everything from textile factories to railroads, and, later in the U.S., the cotton gin, electric light, and automobiles. This comprehensive volume explores all these events and more, including the aftermath of the Revolution—its spread beyond Britain and the U.S. to Asia and throughout the world, allowing for a higher standard of living while challenging that standard with increased pollution and health problems, a widened economic and social class gap, and a weakening of traditional family structure. Biographical sketches of key figures, a chronology of events, primary document excerpts from the period, and a print and nonprint source bibliography supplement the work.

This volume presents the proceedings of the 3rd International Conference on Nanotechnologies and Biomedical Engineering which was held on September 23-26, 2015 in Chisinau, Republic of Moldova. ICNBME-2015 continues the series of International Conferences in the field of nanotechnologies and biomedical engineering. It aims at bringing together scientists and engineers dealing with fundamental and applied research for reporting on the latest theoretical developments and applications involved in the fields. Topics include Nanotechnologies and nanomaterials Plasmonics and metamaterials Bio-micro/nano technologies Biomaterials Biosensors and sensors systems Biomedical instrumentation Biomedical signal processing Biomedical imaging and image processing Molecular, cellular and tissue engineering Clinical engineering, health technology management and assessment; Health informatics, e-health and telemedicine Biomedical engineering education Nuclear and radiation safety and security Innovations and technology transfer

Beyond simulation and algorithm development, many developers increasingly use MATLAB even for product deployment in computationally heavy fields. This often demands that MATLAB codes run faster by leveraging the distributed

parallelism of Graphics Processing Units (GPUs). While MATLAB successfully provides high-level functions as a simulation tool for rapid prototyping, the underlying details and knowledge needed for utilizing GPUs make MATLAB users hesitate to step into it. Accelerating MATLAB with GPUs offers a primer on bridging this gap. Starting with the basics, setting up MATLAB for CUDA (in Windows, Linux and Mac OS X) and profiling, it then guides users through advanced topics such as CUDA libraries. The authors share their experience developing algorithms using MATLAB, C++ and GPUs for huge datasets, modifying MATLAB codes to better utilize the computational power of GPUs, and integrating them into commercial software products. Throughout the book, they demonstrate many example codes that can be used as templates of C-MEX and CUDA codes for readers' projects. Download example codes from the publisher's website: <http://booksite.elsevier.com/9780124080805/> Shows how to accelerate MATLAB codes through the GPU for parallel processing, with minimal hardware knowledge Explains the related background on hardware, architecture and programming for ease of use Provides simple worked examples of MATLAB and CUDA C codes as well as templates that can be reused in real-world projects

An annual collection of studies of individuals who have made major contributions to the development of geography and geographical thought. Subjects are drawn from all periods and from all parts of the world, and include famous names as well as those less well known: explorers, independent thinkers and scholars. Each paper describes the geographer's education, life and work and discusses their influence and spread of academic ideas. Each study includes a select bibliography and brief chronology. The work includes a general index and a cumulative index of geographers listed in volumes published to date.

The book provides a comprehensive overview of electromigration and its effects on the reliability of electronic circuits. It introduces the physical process of electromigration, which gives the reader the requisite understanding and knowledge for adopting appropriate counter measures. A comprehensive set of options is presented for modifying the present IC design methodology to prevent electromigration. Finally, the authors show how specific effects can be exploited in present and future technologies to reduce electromigration's negative impact on circuit reliability.

Bon vivant, railroad historian, photographer, pioneering food critic, chronicler of New York's café society, and noted newspaperman, Lucius Beebe (1902–1966) was an American original. In 1938, with the publication of *High Iron: A Book of Trains*, he transformed the world of railroad-subject photography forever by inventing the railroad picture book genre. In 1940, he met creative and life partner Charles Clegg (1916–1979), also a talented photographer. Beebe and Clegg produced an outstanding and diverse portfolio of mid-twentieth century railroad-subject photographs. Beebe, sometimes with Clegg, also authored about forty books, including many focused on railroads and railroading. *The Railroad Photography of Lucius Beebe and Charles Clegg* brings their incredible story and best photographic work together. Providing an extensive biographic introduction to Beebe and Clegg, author Tony Reevy presents a multi-faceted view of the railroad industry that will appeal to rail enthusiasts as well as those interested in American food culture, the history of New York City, and LGBT studies. *The Railroad Photography of Lucius Beebe and Charles Clegg* is an indispensable history to the work of two men who forever changed the way we see and experience American railroads.

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