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A beautifully designed celebration of the 40th birthday of the Barbican Arts Centre, in the heart of the city of London. It is the largest multi-arts centre in Europe, encompassing an art gallery, theatres, concert halls, cinemas and a much-loved conservatory, and regular collaborators include the London Symphony Orchestra and the Royal Shakespeare Company. Compiled by the Barbican's managing director Sir Nicholas Kenyon, this is an in-depth exploration of the centre, drawing on the vast amount of material available in its archives, much of which has never been seen before. It includes plans and photographs from the centre's design and construction, original signage and branding, and brochures and programmes. All this is accompanied by a wealth of photographs of the huge range of performances and exhibitions that have taken place over the years, from early RSC performances to the popular Rain Room installation of 2012 to today's impressive programme of events put together in conjunction with schools and the local community. The book's authoritative and evocative text includes: Foreword by Fiona Shaw Introduction by Sir Nicholas Kenyon Cultural historian Robert Hewison on how the centre came into being Architectural historian Elain Harwood on its architecture Music critic Fiona Maddocks on music Writer and theatre critic Lyn Gardner on theatre Editor and creative director Tony Chambers on visual art Author and film critic Sukhdev Sandhu on film With full listings of Barbican events from 1982 to the present day, and snippets of oral history from some of the many people associated with the centre over the years, this sumptuous book is an invaluable companion to one of the world's most important cultural spaces.

As computer technology is used to control critical systems to an increasing degree, it is vital that the methods for developing and understanding these systems are substantially improved. The mathematical and scientific foundations currently used are extremely limited which means that their correctness and reliability cannot be ensured to an acceptable level. Systems engineering needs to become a fully fledged scientific discipline and formal methods, which are characterised by their firm mathematical foundations, are playing a vital role in achieving this transition. This volume is based on the proceedings of the Formal Methods Workshop (FM91), held in Drymen, Scotland, 24-27 September 1991. This was the second workshop sponsored by the Canadian and US governments to address the role of formal methods in the development of digital systems. Traditionally, formal methods have evolved in isolation from more conventional approaches, and one of the aims of this workshop was to emphasise the benefits of integrating the two areas. The workshop concentrated on the themes of quality assurance, design methods and mathematical modelling techniques. Particular emphasis was given to safety and security applications. Among the topics covered in this volume are: what is a formal method?; social research on formal methods; current quality assurance methods and formal methods; a pragmatic approach to validation; integrating methods in practice; composition of descriptions; and topics in large program formal development. Formal Methods in Systems Engineering provides an overview of many of the major approaches to formal methods and the benefits which can result from them. It is relevant to academic and industrial researchers, industrial practitioners and government workers with an interest in certification.

A Time Outside This Time

Formal Methods in Systems Engineering

Formal Methods in Systems Engineering Springer Science & Business Media

1. Is the end of theoretical physics really in sight? / A. Khare -- 2. Holography, CFT and black hole entropy / P. Majumdar -- 3. Hawking radiation, effective actions and anomalies / R. Banerjee -- 4. Probing dark matter in primordial black holes / A.S. Majumdar -- 5. Physics in the 'Once Given' universe / C.S. Unnikrishnan -- 6. Doubly-special relativity / G. Amelino-Camelia -- 7. Nuances of neutrinos / A. Raychaudhuri -- 8. Dynamics of proton spin / A.N. Mitra -- 9. Whither nuclear physics? / A. Abbas -- 10. Generalized Swanson model and its pseudo supersymmetric partners / A. Sinha and P. Roy -- 11. The relevance of berry phase in quantum physics / P. Bandyopadhyay -- 12. Quantum Hamiltonian diagonalization / P. Gosselin, A. Bérard and H. Mohrbach -- 13. The Hall conductivity of spinning anyons / B. Basu -- 14. Quantum annealing and computation / A. Das and B.K. Chakrabarti -- 15. Liouville gravity from Einstein gravity / D. Grumiller and R. Jackiw -- 16. Exact static solutions of a generalized discret σ / A. Khare -- 17. A model for flow reversal in two-dimensional convection / K. Kumar [und weitere] -- 18. Euclidean networks and dimensionality / P. Sen -- 19. Equal superposition transformations and quantum random walks / P. Parashar -- 20. Cloning entanglement locally / S.K. Choudhary and R. Rahaman

Recent Developments in Theoretical Physics

Living in the Mountains

A breathtaking survey of contemporary homes, each with a deep connection to the landscapes and vistas of the mountains. Whether snow-capped, rocky, or covered with verdant forest, the sublime wilderness of mountains has inspired humans for millennia. Offering respite from urban living and a profound connection to nature, mountain landscapes also present unique challenges that have resulted in innovative, resourceful, and beautiful residential architecture. Living in the Mountains is the definitive global tour, showcasing the finest examples of architect-designed homes, whether furnished with impressive views, offering protection from harsh environments, or simply reveling in their extraordinary altitude.

A story of queer love and working-class families, *Young Mungo* is the brilliant second novel from the Booker Prize-winning author of *Shuggie Bain*. Douglas Stuart's first novel *Shuggie Bain*, winner of the 2020 Booker Prize, is one of the most successful literary debuts of the century so far. Published or forthcoming in forty territories, it has sold more than one million copies worldwide. Now Stuart returns with *Young Mungo*, his extraordinary second novel. Both a page-turner and literary tour de force, it is a vivid portrayal of working-class life and a deeply moving and highly suspenseful story of the dangerous first love of two young men. Growing up in a housing estate in Glasgow, Mungo and James are born under different stars—Mungo a Protestant and James a Catholic—and they should be sworn enemies if they're to be seen as men at all. Yet against all odds, they become best friends as they find a sanctuary in the pigeon dovecote that James has built for his prize racing birds. As they fall in love, they dream of finding somewhere they belong, while Mungo works hard to hide

his true self from all those around him, especially from his big brother Hamish, a local gang leader with a brutal reputation to uphold. And when several months later Mungo's mother sends him on a fishing trip to a loch in Western Scotland with two strange men whose drunken banter belies murky pasts, he will need to summon all his inner strength and courage to try to get back to a place of safety, a place where he and James might still have a future. Imbuing the everyday world of its characters with rich lyricism and giving full voice to people rarely acknowledged in the literary world, *Young Mungo* is a gripping and revealing story about the bounds of masculinity, the divisions of sectarianism, the violence faced by many queer people, and the dangers of loving someone too much.

Young Mungo

Cravings: All Together

An instant New York Times bestseller! From the bestselling author of *But What if We're Wrong*, a wise and funny reckoning with the decade that gave us slacker/grunge irony about the sin of trying too hard, during the greatest shift in human consciousness of any decade in American history. It was long ago, but not as long as it seems: The Berlin Wall fell and the Twin Towers collapsed. In between, one presidential election was allegedly decided by Ross Perot while another was plausibly decided by Ralph Nader. In the beginning, almost every name and address was listed in a phone book, and everyone answered their landlines because you didn't know who it was. By the end, exposing someone's address was an act of emotional violence, and nobody picked up their new cell phone if they didn't know who it was. The 90s brought about a revolution in the human condition we're still groping to understand. Happily, Chuck Klosterman is more than up to the job. Beyond epiphenomena like "Cop Killer" and Titanic and Zima, there were wholesale shifts in how society was perceived: the rise of the internet, pre-9/11 politics, and the paradoxical belief that nothing was more humiliating than trying too hard. Pop culture accelerated without the aid of a machine that remembered everything, generating an odd comfort in never being certain about anything. On a 90's Thursday night, more people watched any random episode of *Seinfeld* than the finale of *Game of Thrones*. But nobody thought that was important; if you missed it, you simply missed it. It was the last era that held to the idea of a true, hegemonic mainstream before it all began to fracture, whether you found a home in it or defined yourself against it. In *The Nineties*, Chuck Klosterman makes a home in all of it: the film, the music, the sports, the TV, the politics, the changes regarding race and class and sexuality, the yin/yang of Oprah and Alan Greenspan. In perhaps no other book ever written would a sentence like, "The video for 'Smells Like Teen Spirit' was not more consequential than the reunification of Germany" make complete sense. Chuck Klosterman has written a multi-dimensional masterpiece, a work of synthesis so smart and delightful that future historians might well refer to this entire period as Klostermanian.

A blistering novel about a writer's creative response to the daily onslaught of fake news, memory, and the ways in which truth gives over to fiction "An absorbing portrait of an inspired artist in the midst of our maddening cultural moment" —Ayad Akhtar, author of *Homeland Elegies* When Satya, a professor and author, attends a prestigious artists' retreat to write, he finds the pressures of the outside world won't let up: the president rages online; a dangerous virus envelops the globe; and the twenty-four-hour news cycle throws fuel on every fire. For most of the retreat fellows, such stories are unbearable distractions, but for Satya, who sees them play out in both America and his native India,

these Orwellian interruptions begin to crystallize into an idea for his new novel, *Enemies of the People*, about the lies we tell ourselves and one another. Satya scours his life for instances in which truth bends toward the imagined and misinformation is mistaken as fact. Mixing Satya's experiences—as a father, husband, and American immigrant—with newspaper clippings, the president's tweets, and observations on famous works of art, *A Time Outside This Time* captures a feverish political moment with intelligence, beauty, and an eye for the uncanny. It is a brilliant interrogation on life in a post-truth era and an attempt to imagine a time outside this one.

Recipes to Love: A Cookbook

Contemporary Houses in the Mountains

The new novel from Ali Smith is a celebration of companionship in all its timeless and contemporary, legendary and unpindownable, spellbinding and shapeshifting forms.

Discover the untold story of African surf culture in this glorious and colorful collection of profiles, essays, photographs, and illustrations. AFROSURF is the first book to capture and celebrate the surfing culture of Africa. This unprecedented collection is compiled by Mami Wata, a Cape Town surf company that fiercely believes in the power of African surf. Mami Wata brings together its co-founder Selema Masekela and some of Africa's finest photographers, thinkers, writers, and surfers to explore the unique culture of eighteen coastal countries, from Morocco to Somalia, Mozambique, South Africa, and beyond. Packed with over fifty essays, AFROSURF features surfer and skater profiles, thought pieces, poems, photos, illustrations, ephemera, recipes, and a mini comic, all wrapped in an astounding design that captures the diversity and character of Africa. A creative force of good in their continent, Mami Wata sources and manufactures all their wares in Africa and works with communities to strengthen local economies through surf tourism. With this mission in mind, Mami Wata is donating 100% of their proceeds to support two African surf therapy organizations, Waves for Change and Surfers Not Street Children.

Companion Piece

A Book

*NEW YORK TIMES BESTSELLER • In her most personal cookbook yet, the bestselling author of *Cravings* shares food that will bring you joy and comfort—with a little help from her one-of-a-kind family. Chrissy Teigen has always found a big sense of fun in the kitchen, but more than ever, she turns to the stove for comfort and warmth. Now Chrissy shares the recipes that have sustained her and her family, the ones that made her feel like everything is going to be okay. *Recipes for Cozy Classic Red Lentil Soup,**

ingenious Chrissy signatures like Stuffed PB&J French Toast and puff pastry-wrapped Meatloaf Wellington, and family favorites like her mom Pepper's Thai-style Sloppy Joes and John's Saturday-morning Blueberry Buttermilk Pancakes will have you feeling like you're pulling up a chair to her table.

The Nineties

A novel