

Temperament: The Idea That Solved Music's Greatest Riddle. By Stuart Isacoff. New York, NY: Knopf, 2002. 259 p. ISBN 0-375-40355-8 \$33.00

"Temperament" is a concept upon which western tonality places much emphasis. Temperaments are tunings of the scale adjusting the pitch of certain notes slightly for effect, but why is that necessary? Natural tuning is based on how things vibrate, which is followed in most cultures and can be heard in the vocalizations of many animals, but of course a musician may wish to vary pitch for effect. Why would it become an obsessive concern of western civilization?

The problem was (and is) that following the natural overtone intervals did not create scales in which all intervals were equal. The differences were subtle, and only became a serious aesthetic problem when composers began creating complex harmonic structures and making entire key changes along with shifts in tonal center. Problems with harmonic relationships were immediately evident. Music sounded different, using the same intervals, depending on what note the composer started with, on a fixed-pitch instrument such as the piano. Once tuned, it didn't change until retuned by man or nature.

This problem became music's greatest riddle in the western world. Composers and theoreticians analyzed the situation and attempted to come up with satisfactory solutions. Many tuning systems were utilized with varying success. Unfortunately, one of the tragedies of music education is that the repertoire of earlier eras of music history is seldom performed or taught using the appropriate tunings.

Ultimately, by about the mid-nineteenth century the concept of equal temperament emerged as dominant in the western world. It was not the invention of any one individual; the Chinese had developed such a temperament in the distant past, but did not make use of it, preferring to tune up according to the natural environment. However, the usefulness of equal temperament made it the obvious temperament-of-choice for composers interested in harmonic progressions and key changes. All intervals are equidistant on the piano keyboard, and instruments are manufactured to be easiest to play with that tuning. Problem solved: it became possible to have consistent harmonic relationships in any key.

It may seem surprising that a book about the history of ideas concerning tuning and temperament could be so much fun to read. Nevertheless, Stuart Isacoff, a pianist, composer, lecturer, and writer on music whose work has been widely published, has managed to provide just such an account.

Isacoff begins by tracing theories about the physical principles of sound, beginning with the ancients, including Pythagorean concepts. He lucidly explains the development of ideas concerning the effects of music, tuning, and the relationship of music to mathematics including applications to architectural proportions. Finally, the gradual acceptance of the inevitability of equal temperament as the logical solution is described.

Isacoff sprinkles his sweeping history with the kind of stories and details that makes his

Temperament The Idea That Solved Music's Greatest Riddle

Jeff J. S. Black



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Temperament Stuart Isacoff, 2001 A book that explains how a vexing technical puzzle was solved making possible some of the most exquisite music ever written BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved How Equal Temperament Ruined Harmony (and Why You Should Care) Ross W. Duffin, 2008-10-17 A fascinating and genuinely accessible guide Educating enjoyable and delightfully unscary Classical Music What if Bach and Mozart heard richer more dramatic chords than we hear in music today What sonorities and moods have we lost in playing music in equal temperament the equal division of the octave into twelve notes that has become our standard tuning method Thanks to How Equal Temperament Ruined Harmony we may soon be able to hear for ourselves what Beethoven really meant when he called B minor black Wall Street Journal In this comprehensive plea for more variety in tuning methods Kirkus Reviews Ross W Duffin presents a serious and well argued case Goldberg Magazine that should make any contemporary musician think differently about tuning Saturday Guardian Temperament Stuart Isacoff, 2009-01-16 Few music lovers realize that the arrangement of notes on today's pianos was once regarded as a crime against God and nature or that such legendary thinkers as Pythagoras Plato da Vinci Galileo Kepler Descartes Newton and Rousseau played a role in the controversy Indeed from the time of the Ancient Greeks through the eras of Renaissance scientists and Enlightenment philosophers the relationship between the notes of the musical scale was seen as a key to the very nature of the universe In this engaging and accessible account Stuart Isacoff leads us through the battles over that scale placing them in the context of quarrels in the worlds of art philosophy religion politics and science The contentious adoption of the modern tuning system known as equal temperament called into question beliefs that had lasted nearly two millennia and also made possible the music of Beethoven Schubert Chopin Debussy and all who followed Filled with original insights fascinating anecdotes and portraits of some of the greatest geniuses of all time Temperament is that rare book that will delight the novice and expert alike **From Bricks to Brains** Michael Robert William Dawson, Brian Dupuis, Michael Wilson, 2010 Discussing the characteristics that distinguish embodied cognitive science from classical cognitive science the authors place a renewed emphasis on sensing and acting on the importance of physical embodiment and on the exploration of distributed notions of control They also show how synthesizing simple systems and observing their behaviour can generate new theoretical insights Numerous examples are brought forward to illustrate a key theme the importance of environment to an actor Even simple agents such as LEGO robots are capable of exhibiting complex behaviour when they can sense and alter the world around them Book Jacket *Rousseau Among the Moderns* Julia Simon, 2015-06-26 Renowned for his influence as a political philosopher a writer and an autobiographer Jean Jacques Rousseau is known also for his lifelong interest in music He composed operas and other musical pieces invented a system of numbered musical notation engaged in public debates about music and wrote at length about musical theory Critical analysis of Rousseau's work in music has been principally the domain

of musicologists rarely involving the work of scholars of political theory or literary studies In *Rousseau Among the Moderns* Julia Simon puts forth fresh interpretations of *The Social Contract* the *Discourse on the Origin of Inequality* and the *Confessions* as well as other texts She links Rousseau's understanding of key concepts in music such as tuning harmony melody and form to the crucial problem of the individual's relationship to the social order The choice of music as the privileged aesthetic object enables Rousseau to gain insight into the role of the aesthetic realm in relation to the social and political body in ways often associated with later thinkers Simon argues that much of Rousseau's modernism resides in the unique role that he assigns to music in forging communal relations

Martin Scorsese Vincent LoBrutto, 2007-11-30 Martin Scorsese's current position in the international film community is unrivaled and his name has become synonymous with the highest standards of filmmaking excellence He is widely considered America's best living film director and his *Taxi Driver* and *Raging Bull* appear frequently on worldwide surveys of the best films of all time Here in the first biographical account of this artist's life Vincent LoBrutto traces Scorsese's Italian American heritage his strict Catholic upbringing the continuing role of religion in his life and art his obsessive love of cinema history and the powerful impact that the streets of New York City had on his personal life and his professional career Meanwhile the filmmaker's humble soft spoken public persona tells only part of the story and LoBrutto will delve into the other side of a complex and often tortured personality Scorsese's intense passion his private relationships his stormy marriages and his battles with drugs and depression are all chronicled here and in many cases for the first time In addition the book includes an interview with the director as well as filmographies cataloging his work as a director producer actor and presenter As his Best Director award at the 2007 Oscars clearly demonstrated Scorsese has become something like Hollywood royalty in recent years finally enjoying the insider status and favor that eluded him for most of his career But these recent developments aside Scorsese is also notable as a distinctly American type of artist one whose work created in a medium largely controlled by commercialism and marketing has always been unmistakably his own and who thus remains a touchstone of artistic integrity in American cinema In *Martin Scorsese A Biography* readers can examine not only the work of one of the form's genuine artists but also the forces that have propelled the man behind it

Rousseau's Critique of Science Jeff J. S. Black, 2009-01-01 Rousseau's *Critique of Science* is the first book length treatment of Rousseau's first philosophic work It argues that the *Discourse* is indispensable both for those interested in the genesis and meaning of Rousseau's philosophic system and for those interested in the moral consequences of our liberal democratic commitment to scientific progress

The Guitar and the New World Joe Gioia, 2014-03-12 The American guitar that lightweight wooden box with a long neck hourglass figure and six metal strings has evolved over five hundred years of social turmoil to become a nearly magical object the most popular musical instrument in the world In *The Guitar and the New World* Joe Gioia offers a many limbed social history that is as entertaining as it is informative After uncovering the immigrant experience of his guitar making Sicilian great uncle Gioia's investigation stretches from the

ancient world to the fateful events of the 1901 Buffalo Pan American Exposition across Sioux Ghost Dancers and circus Indians to the lives and works of such celebrated American musicians as Jimmy Rodgers Charlie Patton Eddie Lang and the Carter Family At the heart of the book s portrait of wanderings and legacies is the proposition that America s idiomatic harmonic forms mountain music and the blues share a single root and that the source of the sad and lonesome sounds central to both is neither Celtic nor African but truly indigenous Native American The case is presented through a wide examination of cultural histories academic works and government documents as well as a close appreciation of recordings made by key rural musicians black and white in the 1920s and 30s The guitar in its many forms has cheered humanity through centuries of upheaval and The Guitar and the New World offers a new account of this old friend as well as a transformative look at a hidden chapter of American history

Neuroscience and Religion Volney P. Gay, 2009-08-16 For religious persons the notion of human being is tied inextricably to the notion of God or the gods and turns on this question what is human being How did we with our almost infinite capacities for thought change and domination come to be Imbued with powers far beyond any other animal humans are too faulty to be considered gods themselves Yet the idea of God or the gods appears in all distinctive human cultures it names the other pole of human it designates a being who realizes perfectly our imperfectly realized nature With the rise of new sciences come ancient anxieties about how we should define human being In the nineteenth century electricity and magnetism fascinated experts and captivated the lay public In the twenty first century advances in neuroscience open up vast new possibilities of mimicking and perhaps emulating human being In this book twelve scholars and scientists ask what if anything distinguishes Brain from Mind and Mind from Self and Soul

A Fractal Epistemology for a Scientific Psychology Terry Marks-Tarlow, Yakov Shapiro, Katthe P. Wolf, Harris L. Friedman, 2020-01-06 Fractal dynamics provide an unparalleled tool for understanding the evolution of natural complexity throughout physical biological and psychological realms This book s conceptual framework helps to reconcile several persistent dichotomies in the natural sciences including mind brain linear nonlinear subjective objective and even personal transpersonal processes A fractal approach is especially useful when applied to recursive processes of consciousness both within their ordinary and anomalous manifestations This novel way to study the interconnection of seemingly divided wholes encompasses multiple dimensions of experience and being It brings together experts in diverse fields neuropsychologists psychiatrists physicists physiologists psychoanalysts mathematicians and professors of religion and music composition to demonstrate the value of fractals as model method and metaphor within psychology and related social and physical sciences The result is a new perspective for understanding what has often been dismissed as too subjective idiosyncratic and ineffably beyond the scope of science bringing these areas back into a natural scientific framework

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