ation of a new form of money and a new mode of temporality. So though the interests, instruments, and subject positions are new socially and historically, they do not appear to be part of a large-scale epochal transformation in the very structure of capitalism. To buyers and sellers—that is, to the market—they are purely economic and specialized responses to changes in the real conditions of doing business in a global, technologized world.

6 The World of Risk

ment of objectification. Thus the production of derivatives. is a relation that objectifies itself in other relations, such as relies upon increasingly complicated and sometimes controwe have referred to as the "objectification of abstract risk" mined through the quantification and pricing of risk. What the production of connectivity is inseparable from the mofinancial derivatives, its function in shaping and stimulating versial accounting protocols and pricing strategies. Since risk lation so historically novel is that they are defined and deteractions. What renders the social relations of financial circuit easier to carry out nearly instantaneous worldwide transmoney. Its newness does not lie in increased levels of technocapital; earlier centuries also witnessed great movements of culture of financial circulation new is not the global flow of pole and the multipolar periphery. What makes this emerging parities in wealth and life possibilities between the metrological sophistication and power, though these of course make both for the organization of capital and for the great dis sion of speculative capital has produced a new culture of financial circulation that has enormous consequences ince the mid-1970s the rapid and unprecedented expan

142

by objectifying and combining context-specific risks in order to model and price them, also objectifies risk in an abstract form. Beyond this, the power of the financial derivatives market compels those in the developing world to not only accept this notion of risk but to assume a substantial and disproportionate share of the risks engendered by the global capital markets.

gies to minimize risk and maximize return on investment, or statistically compiled histories and appropriate samplings. bets on whether the price of an asset would rise or fall. Inspeed and degree of price fluctuations-to capture the first volatility-at-risk programs to calculate exposure risk. Scholes equations for pricing options, diversification stratepiece of modern risk management, whether it be in the Blacksuch as standard deviation. Volatility has become the center and focus on their magnitude, measured by statistical notions was to disregard the directionality of specific price swings The breakthrough, initiated by Markowitz's portfolio theory, surance companies would make similar decisions based upor tical enumerations of concrete risk-essentially directional ment"), most of firancial forecasting was based upon statismanagement (which could also be called "volatility manage dimension. Before the development of modern ideas of risk The financial community uses the notion of volatility—the Operationally, abstract risk appears in two dimensions

One effect of focusing on volatility was to abstract from the concrete risks associated with particular assets. For example, before the development of portfolio theory, the usual procedure was for investors to simply research individual companies and then place directional bets on whether the stock price of these companies would go up or down, given their knowledge of the companies and their estimate of future risks that the companies might face (such as commodity prices, inflation, and strikes). Markowitz argued that the rate of return

portfolio management distilled the notion that risks can be calculations of the covariances among all the securities in a ments and extensions of Markowitz's theory transformed his ket. Though it was noted only obliquely, the development of market to a relation between each security and the whole marthe notion of value-at-risk (var); at the same time, the refinewhat became known as the capital asset pricing model and of the market as a whole, thereby laying the foundation for culate the average volatility of a stock relative to the volatility one of concrete risks. William Sharpe (1964) and others rerisks), then an analysis of abstract risk is more useful than mon investment horizon and are equally risk averse, all inves reflect what is going on (markets are perfect; all investors fined and broadened Markowitz's insights to show how to caltors have the same expectations about security rewards and maximize mean and variance utility functions over a comcerning market efficiency and price competition accurately appear in the pricing of derivatives, Markowitz argued that risk is not the risks encountered by the issuing company or volatility. From this perspective, the critical aspect of a stock's on the aggregation of these risks as measured by the stock's or more of these concrete risks might materialize but rather on an investment was not dependent on the chance that one his analysis is that if the standard economic assumptions conmize risk by appropriately diversifying. One way of reading folio of various stocks, one could maximize return and minition, Markowitz showed that if one considered a whole portthe risk assumed, the larger the potential return. In addithat because markets were efficient at pricing risk, the greater tions of those securities to overall portfolio risk. He reasoned pected return of individual securities against the contribu portfolio optimization turned on a tradeoff between the exbution to portfolio risk. In a model that would eventually the risks associated with the particular stock, but its contri-

socially disembedded and aggregated, in the process crystallizing the notion of systemic risk.

ernments, pension funds, and business schools. brokerages, and exchanges; but also included would be gov Directly implicated are financial institutions such as banks, supposes abstract risk as one of its constitutive dimensions to create a circulatory process of capital formation that predifferential volatilities of their underlying assets. The result is volatility measures and which may be used to speculate on the include derivative instruments whose pricing depends upon add equity to cover the risk. At the same time, these assets because of changes in asset valuations, a bank is required to capital requirements; when these requirements are not met cord (1996) for international banks uses van for calculating given time within a certain level of probability. The Basle Acmeasures the maximum loss in the value of a portfolio over a has become the preferred way of assessing corporate risk; it cial instruments and institutions. For example, value-at-risk abstract risk became a basic category among various finanof volatility measures and the concomitant pricing of risk the second dimension of abstract risk. With the refinement The growing use of volatility in risk management points to

Corresponding to the two related forms of risk objectified in the derivative are two forms of connectivity. The first is the contextually specific connectivity that is generated by the objectification of particular types of risk in the buying and selling of a derivative product. Thus, for example, a currency derivative linking dollars and yen creates a specific, temporally bracketed connection between the two currencies. The second form of connectivity derives from the objectification of abstract risk. Here, the connectivity created by each derivative appears to be an instance of the global structure of financial circulation. Within the circulatory system, abstract risk thus functions as the means and mechanism of "finan-

independent of the agents and institutions that it interconcreated by globalizing processes such as outsourcing, gives and means of financial practice. framing or metasystem that defines the context and the goals nects. It follows from this that circulation is evolving into a circulation a life of its own, making it appear as though it were the surface is simply an attempt to offset the uncertainties respect to one another. The risk-bearing derivative, which on litically interrelates agents, institutions, or nation-states with of financial circulation does not seem to be a system that poto seem far removed from social determinations. The culture tion from production have a sufficiently objective character connectivity by abstract risk and the uncoupling of circulaphases of capitalism. The result is that both the mediation of duction and imbue it with an autonomy unknown to earlier and selling derivatives is to uncouple circulation from protional dynamic in which the sociostructural effect of buying abstract risk strives toward totalization, producing a directive instruments. It is simultaneously the form of risk that is cial translation" among different contextually specific deriva form of global social connectivity. In contrast to concrete risk, historically specific to circulatory capital and an objectified

The construction of financial derivatives also brings together two levels of practice. On one level, there is a pragmatic determination that is also an act of classification of the varied types of risks that a particular situation produces. On another level, there is a pragmatic determination of which risks should be consolidated within the derivative, thus lending an abstract dimension to the risk-bearing derivative. This abstract dimension of risk has defining features that are part of its natural character. Specifically, the abstract dimension seems to behave in a lawlike, quasi-statistical manner, yet to be wholly impersonal and asocial. It appears to emanate directly and objectively from the situation; those who are re-

nity may price. It is crucial to appreciate that this process of of the abstract dimension are invariably embodied in, and can history and acquired in the progress of their personal lives. deeply social because it is founded on a process that those in So however natural the category of risk may first appear, it is detachment and reassembly creates the objectification of risk. into a single, homogeneous whole that the financial commucrete, specific types of risk-concrete and specific because rable types of risk is reduced to a singularity. The various constract dimensions, making it appear as though the movement the financial world have made in the course of their collective they are drawn from real social conditions—are abstracted be read off of, the derivative. The plurality of incommensusion that the impersonal, asocial, and lawlike characteristics ing also works in the other direction, creating the impresthe derivative. But something else is happening: the suturother than the technical assembly and market distribution of from concrete to abstract implicated no human intervention way street, because it conceptually sutures concrete and abworld-given risks. This mode of objectification creates a twoprinciples, the derivative will seem to accurately express the culation. As long as its maker follows the proper technical the risks produced by the formal dimensions of financial cirsponsible for producing derivatives simply calculate and price

The financial community's development of the concept and modeling of volatility was the next step in the objectification of risk. The central idea is that the market can best describe and predict the behavior of abstract risk by measuring its variability over time. The understanding is that the magnitude rather than the direction of change in the values for a specific derivative communicates all the financial information necessary to price it. Note that the measurement of volatility tries to formally reincorporate the contextual social information that had to be removed to produce abstract risk in the

turned out to be highly tractable and usable in practice" (xv). and models [derived from physics] based on Brownian motion the perfect tools for the development of financial derivatives, of stochastic process that focuses on random variables] were argue that "stochastic calculus and martingale theory [a kind search, the mathematicians Hunt and Kennedy (2000) would model was sufficiently close to reality to yield useful predicditions. Indeed, after almost two decades of subsequent remodel "real-world conditions" (Rosenberg 1981). Nevertheanalysts have recognized that the model does not perfectly of the assets underlying a derivative are now simply a patall the complex socio-historical forces that shape the value bring the model progressively closer to real-world market contions and that further refinement of the mathematics would less, these realizations were tempered by the belief that the tern of price movements. From the start of portfolio theory, as, the history of a derivative's volatility. The result is that first place. The social is reintroduced in, and misrecognized

write the validity of the equations' foundations. That the fiquestion the presuppositions about social reality that undertee that analyses of derivatives will never scrutinize or call into institutional design of the field of mathematics all but guaran-Socially speaking, both the design of these equations and the conditions of application are uniform across time and space. that all future events will replicate past events and that the tions used to price derivatives, we find a common assumption rivatives. If we deconstruct the stochastic differential equait as axiomatic that volatility patterns record, reflect, and and Scholes and advanced subsequently by a growing mathemeasure the abstract risk profile captured by any and all dematics of derivatives. All these derivative-pricing models take through stochastic formulas, such as those invented by Black the formal objectification of risk has been its quantification As suggested above, the final and continuing dimension in

148

that risk is a formal, abstract, and context-insensitive entity. tions only serves to proclaim, reiterate, and legitimize the idea nancial community relies so unquestioningly on these equa

it is precisely the process of disembedding these risks that contexts of their production and consumption. Nonetheless, gest, it is ultimately impossible to disembed risks from the it is an individuated aspect of a homogeneous and systemic and heterogeneous global circuitry; as abstract risk, however sociohistorical contexts. Viewed from the perspective of circan adequately capture the risk in risky situations. namic that lends itself to the illusion that stochastic models provides the directional dynamic of financial circulation, a dytotality. This totality is always out of reach because, as we sug concept that strives toward the production of a circulatory exchange), a concrete risk is particular and also part of a fluid culation as a field of action (such as outsourcing or currency cause its character is system-wide and abstracted from all as quantifiable through the same mathematics, and also bestrumental in helping to forge the overall circulatory system rather that once risk exists in an abstract form, it can take on the variegated forms of specific concrete risk, defining them Abstract risk functions systemically because it interconnects constructively in the same way, the calculations are also in-Moreover, because each calculation of abstract risk functions the overarching role of helping to produce connectivity itself. mon element in all sorts of transnational transactions but contemporary circulation is not the truism that it is the com-So what creates the metalevel and makes risk systemic in

day that it is well beyond the pale of ordinary understanding to do this in an argot that is so far removed from the everythat they are uncontaminated by politics, great and small, and It alone is thought to provide truths that are pure in the sense ture generally, mathematics maintains a privileged position. As much in the financial community as in popular cul-

> a heterogeneous and often apparently indeterminable space objectification of abstract risk provides a means of specifying 301). It can now be understood that for derivative pricing the that space of events for the problem at hand (Salsburg 2001, as pricing derivatives, analysis needs to identify and specify evolution of this process is that the statistical methods develcommunity could not have developed or tested its stochas of derivatives consecrates the concept of abstract risk ever achievement worthy of awe. In this respect, the mathematics grasp of their underlying foundations—is thought to be an space of events, meaning that for real-world problems such determined that probability is a measure of sets in an abstract to the present discussion because mathematical statistics has the field of mathematical statistics. Reading the literature on oped in the financial community occurred independently of tic models of derivative pricing. An important irony in the already-existing objectification of abstract risk, the financial as this concept of risk makes the math possible. Without an to apply mathematical models mechanically without any rea invent a not always perfectly round wheel. This is important derivatives, one gets the sense that it is often attempting to re-Even the intermediate stage of understanding—the ability

stract quality amplifies the sociality of the object, the derivawhether they appear as concrete and specific instances of risk circulation of derivatives. The derivative does not embody two not imply the existence of two types of risk, but two insepative, in ways that quite paradoxically mask its sociality by bundle of risks that is priced, sold, and circulated. This abor as an overarching objectification of the totality of relations types of risk: rather, the forms of risk differ depending on rable dimensions of risk implicated in the construction and What is critical about the derivative is that it is this abstract The distinction between concrete and abstract risk does event will occur or to price the systemic risk to the circulatory price the socio-historical risk that a unique or revolutionary so at a great and hidden cost: it now becomes impossible to to unify, quantify, and price these forms of risk, but it does economic, and political relations that engender specific risks that what characterizes the contemporary financial system is of it, this is what many commentators mean when they say counterparty may use the bankruptcy laws to avoid payment, cial relations material to the fact of specific, concrete risks. So tried to indicate, this commodification does allow the market appear as a singular, homogeneous object. As our analysis has priced as a package. Although they are necessarily not aware and more—all may be combined in a single derivative and in interest rates and a tightening of liquidity, the risk that a change of government in a postcolonial supplier, the risk that the risk that social and political turbulence may precipitate a subsuming, equating, and then quantifying all forms of sothe "commoditization of risk": namely, the wealth of social, the economic politics of the central bank may motivate a rise

The Risks of Circulation and the Circulation of Risks

Whatever else it may do, the use of derivatives objectifies diverse and often unrelated circulations in a single instrument and then distributes the risk to a theoretically unlimited set of buyers. By combining forms of risk that need not be related or commensurable, derivatives engender an abstract form of risk, meaning that what the derivative objectifies is risk itself as opposed to relations intrinsic to the social economy. Where risk is concrete—such as the risk that frost will damage the crops, the chief executive of a company will perish, or a war will impede oceanic transportation—the steps taken to offset that risk are economic, direct, and visible.

derivative-based systems of circulation, such as monetary exfrom any concrete or specific circumstance, is the basis for other words, the metropolitan conception of risk, quite apart denominated goods, particularly energy and technology. In risks that the market assigns to them determine their access no control over what constitutes risk or which risks the mardence is that people, especially those on the periphery, have mediate future of an entire country (determining whether, for very basis of systems of circulation capable of defining the immode of economic interdependence, in that risk becomes the of risk in the creation and sale of derivatives generate a new to finance capital and their ability to purchase dollar- and Eculitical culture, history, or social economy. Nevertheless, the ket determines are produced by the character of their pohousing). So a defining feature of this form of interdepenexample, it can raise the funds needed to finance low-income By contrast, the objectification, aggregation, and parceling

suturing circulation is compatible with other and older forms it is beginning to direct and dominate their trajectories. In a of interdependence, even while, as the quote above suggests, way of suturing the circulatory system globally. This way of The risk-based derivative thus appears to be a historically new markets, but the financial markets driving the real economy" put it, "it's no longer the real economy driving the financial the growing independence of circulation). As one pundit has lated catalyzes the independence of the circulatory system ket is the largest and most influential, the objectification of globalizing circulatory system in which the derivatives mar-(real, in this case, denoting the production-based economy). form of social mediation specific to, and also instrumental in, from production (technically speaking, it generates a new tives constitute the general form of the product being circu-A sociostructure of financial circulation in which deriva-

a company's profits come from domestic sources; the risk of tion of capital animated by speculative investment leads to the through direct social action. The result is that as the circulafirms cannot mitigate the risks created by connectivity solely financial derivatives define the global circulation of capital contrast, in a postmodern, postindustrial economy in which ment among the companies' managements; and so on. By with by fostering personal relationships and mutual commitpany's suppliers may not stand by it during a recession is dealt tising budget and distribution outlets; the risk that a com lack of product demand is dealt with by increasing the advercurrency risk is dealt with by making sure that the bulk of firms deal with specific risks through specific actions. Foreign such a regime risk is not organized, it is not commodified, and under a regime of production-based national capitalism. In This is very different from the concept and character of risk

autonomy of circulation, risk emerges as a principal means, along with the outsourcing contract, by which persons and companies organize global interdependence.

undermines connectivity by disrupting the logistics and temthe sphere of production, risk has much the opposite effect: it abstracted sense specifies the function of risk in the structurconstructive force within a system of circulation. Risk in this recognized uncertainty), risk in its abstract form is the selfconcrete function of hedging (an action that guards against a global financial circulation. So in addition to its usual and direct economic action. In this sense, a form of risk that it itself subsumes the forms of connectivity possible through function of abstract labor in the sphere of production, risk poralities of commodity manufacturing and distribution. ing of global connectivity. It is worth pointing out here that in presupposes and produces defines the emerging culture of based transactions. In ways analogous to and distinct from the tionship by their participation in a circulatory system of risk-Anonymous agents and organizations are brought into relaing social relations within the sociostructures of circulation Risk does this by serving as the objective means of organiz-

The Politics of Circulation

A defining feature of contemporary circulation is that it has become its own objective, its institutions and mechanisms seemingly independent of, and unconcerned with, the persons and nations affected by it. The production of a substantive, production-enhancing value, such as that gained from hedging, has rapidly become mostly incidental to the flow of capital and the speculative grasp for new sources of profit. As noted, hedging now makes up less than 5 percent of the value of financial derivatives trading, and that number is only expected to decline. Without large and growing pools of ag-

goal of financial circulation increasingly shapes the means of defining its globalization. And as this process develops, the consumption. Essentially, speculative capital subsumes risk, level is neither motivated by production nor oriented toward bue it with a self-expansive character that at a deep systemic ing than to the relentless search by speculative capital for arnot only become a means to an economic good (the mitigabitrage opportunities. The characteristics of the market imends. Accordingly, the various types of financial derivatives lapses into itself, creating a system in which means dominate the self-expanding role of speculative capital, circulation has is commonplace in the creation of orc products. Because of tility or price movement of a derivative, even by analogy, as there would be no markets to function as reference points contemporary derivatives would be entirely different because gressively speculative capital, the complexion and power of now marketed correspond less to the needs of corporate hedgtion of uncertainty) that is itself a means, but the means colfor their pricing. There would be no way to establish vola-

The evidence indicates that the metropolitan financial community's globalization of risk generates relations of connectivity that affect citizens, institutions, and nation-states. The risk-bearing derivative is thus politically charged. Risk does not, however, appear in the public sphere in this highly social political capacity; rather, the abstraction, pricing, and globalization of risk appears as an objectifying activity that simply bridges the relationship between specific sets of uncertainties and the derivatives market. Accordingly, though the derivative embodies risk in both its concrete and abstract dimensions, the latter dimension becomes externalized through the relationship between the derivative and the underlying asset: a relationship expressed through the concept of notional value (the amount of capital controlled by a particular deriva-

and its particular appearances. tion of capital is the contrast between its systemic character that a significant political feature of the globalizing circulaimplications and functions in generating a globalizing circuas it conceals the social construction of risk and its political acter that apparently is objectively natural-expresses even seemingly asocial, and politically neutral character to both rally occurring needs. This duality thus imparts an objective, latory system. Indeed, the analysis presented here underlines dimension as well. In this way the character of risk -- a charthe concrete risk embodied in the derivative and its abstract they appear to be no more than the human results of natuize that which engenders connectivity, namely abstract risk, sion, the notional amount. And because derivatives external crete risks that materialize in a specific situation. On a deeper no more than the means of summarizing and pricing the conan influential duality. On the surface, a financial derivative is level, the derivative is the objectification of its abstract dimentive at a given point in time). This externalization produces

So one of the paradoxes of financial derivatives is that those disciplines and analysts adept at understanding their technical aspects and markets are least likely to grasp their political implications and effects. Those working in business economics and kindred fields treat the risks associated with the global circulation of capital as particular appearances flowing from the natural consequences of economic action. They tend to assume that beneath the actions and beyond the consciousness of agents, derivatives are the sum of their formal properties, which one can grasp in an entirely formal way through the methods of mathematical statistics (methods, we have argued, that are strangely de-mathematized in the sense that they fail to specify certain critical mathematical conditions for their production). Such accounts not only locate themselves at the surface of the phenomena but also

156

implicitly assert that there are no deeper sociostructural and political foundations. Consonantly, these accounts of financial derivatives cannot begin to explain why risk in an abstract form came to functionally mediate global connectivity and emerged as a dominant financial category only in the final quarter of the twentieth century. They cannot explain why the quantification of risk entails a necessary and constant process of social disembedding. But most of all, they cannot explain why circulation has taken on a systemic character, thereby engendering the real possibility of systemic or catastrophic risk to the financial circulatory system as a whole. By assuming that risk is always and everywhere the same, these accounts have no way of conceptualizing the present, a present whose perhaps most influential political reality is the ascension of cultures of circulation, especially that of finance.

and political foundations, transparent to a single, quantified culation. The special function of risk in creating circulation stigates the ascendance of a new form of global financial cirample, political, liquidity, and counterparty risks, but not tem. It is easy to see that a given derivative involves, for extransparent, but not its function in creating a circulatory syscommunity focuses on the derivative, the presence of risk is do not exist. The problem is further that when the financial priced derivative other than to assume that these foundations mensurable risks, each of which has its own social, economic, objectification. There is no other way to make various incom understands the lumping of the various risks as simply their risks in a financial instrument only makes sense if analysis tation. The act of embodying quantified and heterogeneous sense that the form suggests the possibility of its misinterpredoes not, and cannot, appear as an attribute of risk per se. By that the social imagination of abstract and quantified risk in offered by the financial community is understandable in the The surface-level analysis of the risk-bearing derivative

implication, the historically specific function of risk in creating connectivities that deeply influence the lives of people becomes reified, appearing only as the abstract aspect of the numerous kinds of derivatives.

dynamic is beyond human control on the periphery can decide only how they will respond to ing strategies are most likely to generate a profit, while those of speculative capital can decide only which derivatives tradcirculation that truly control them. Once the sphere of finanery to means: for they exercise no control over the forms of cific concrete dangers or uncertainties, the derivative markets and firms is that irrespective of the existence of any spe then investment banks, hedge funds, and other institutions cial circulation exists independently of the political process of capital circulation is reducing the peoples of the periphmay turn against them. To put this differently, the culture creasingly defines and infiltrates the contexts of concrete risk crete risks associated with global connectivity and the emerthese trading strategies. Without a politics of circulation, its As a result, one of the risks now facing nations, institutions Under the auspices of speculative capital, abstract risk in gence of a quasi-autonomous sphere of financial circulation. the production and circulation of derivatives to hedge the con As this occurs, a necessary relationship develops between

Systemic Risk

It is an astonishing irony that the culture of financial circulation has itself become the most significant global monetary risk. And it is equally ironic that the culture has fabricated a risk it can neither recognize nor price. Put simply, the risk is that systemic risk will produce systemic failure; that is, the interconnected network of global financial institutions will fall like dominos when an unexpected, because

stochastically unpredictable, catastrophe topples a major institution such as J. P. Morgan Chase, which has trillions of dollars of derivative exposure. This possibility, like the explosion of a nuclear power plant, is simultaneously improbable yet too potentially devastating to ignore. Such systemic failure, produced from a combination of miscalculation and an event that cannot be calculated because it is a historical singularity, would have telling ramifications for not only circulatory capital but production-based capitals as well.

Systemic failure is the risk that because of the global interdependence of the financial system, a catastrophic collapse of one institution progressively engulfs and topples other institutions until the entire system becomes dysfunctional. Under these conditions, the financial structure could no longer allocate capital, provide liquidity, or allow for a coherent monetary policy. While banking systems can and have collapsed before, financial derivatives certainly escalate the breadth and severity of failure. This is all but inevitable because such derivatives lure institutional players to pyramid leverage as a way to enhance speculative returns, the financial system has become interconnected globally, and derivatives operate in a space so unregulated that it is difficult to even determine from where in the metropolitan world such failure might originate.

While a financial winter might structurally resemble other more localized failures, its size and planetary scale could portend greater and possibly catastrophic consequences if it were of such great magnitude that neither international institutions like the MF nor national federal banks had sufficient reserves and dexterity to serve as lenders of last resort. To date, the closest event to such a meltdown was the fall of Long Term Capital Management (LTCM), one of the world's largest hedge funds, which between January and September 1998 lost upwards of 90 percent of its outstanding value. The losses sus-

tained by LTCM posed, in the words of a study by the General Accounting Office, "potential systemic risk" (1999, 2). Describing the situation, the Bank for International Settlements wrote that the state of global financial markets raised "apprehensions among market participants and policy makers of an imminent implosion of the financial system" because liquidity had evaporated "in both industrial and emerging economies," making it very difficult for borrowers "to raise financing even at punitive rates" (quoted in General Accounting Office 1999, 5). Aware that the failure of LTCM to repay its debt obligations could instigate a chain reaction, the U.S. Federal Reserve decided, contrary to its own well-publicized policy, that it would be imprudent to allow the markets to take their course. Accordingly, the Federal Reserve orchestrated a recapitalization of LTCM.

nancial crises have the greatest impact on the least credittake account of, systemic risk. The second point is that ficalled the socio-historical-and they cannot account for, or tive as opposed to singular events—what in other circles is reason is that these models can only accommodate repetifact is that neither these firms nor regulators can measure its risk exposure (since its positions may be arbitraged), the of dollars and whose leverage ratios sometimes top 600 to 1. of 30 to 1 is now dwarfed by firms, epitomized by J. P. Morsheet holdings of \$1.4 trillion with an average leverage ratio ricated more ways to pyramid leverage. LTCM's off-balance worthy firms and nations. This means that a global financial the actual risks by using current modeling techniques. The derivative contracts is not necessarily an accurate gauge of And while it is certainly true that the notional value of a firm's gan Chase, whose exposure is measured in tens of trillions ket has grown exponentially, become more global, and fab-Since the salad days of LTCM, the financial derivatives mar-

meltdown would have its most devastating effects on the various points of the periphery. However improbable a financial implosion, such an occurrence would result in extraordinary misery for the peoples and destabilize the governments of Latin America, Africa, and much of South Asia.

7 Derivatives and the Stability of the State

emergence is a critical moment, in the ascendance of circulation. This is, but is also much more than, the amplification of the flows of materials and money across national borders that on the margins were always soft and rather permeable. The centerpiece is a reorganization of the world economy animated by globalizing processes whose main hubs are cultures and sociostructures of circulation in which financial derivatives are increasingly important cogs—important because they add a metalevel to the transnational pulse of capital and because they emanate from the metropole. Powered by the emergence and abundance of speculative capital, the risk-driven derivative has come to exert enormous influence on the global economy by inflecting and deflecting the movements of capital, the ultimate lubricant of commerce.

The explosive rise of derivatives from almost nothing to the planet's largest market is instrumental in, and also expressive of, a world change that challenges virtually all existing accounts of the interrelationship between the economy and the state. Capitalism appears to be transforming from a production-centered, nation-based political economy to a much more cosmopolitan structure in which not only does