

CONTENTS

Abbreviations · xiii

	Introduction	1
PART I		13
CHAPTER 1	Leibniz with Boineburg: Acquiring a New Patron, Negotiating Contingency	23
CHAPTER 2	Encountering Paris	33
	<i>A German Publicist and Agent in Paris</i>	37
CHAPTER 3	Learning in Paris	45
CHAPTER 4	Engaging with Cartesianism	53
	<i>‘Le grand Arnauld’</i>	54
	<i>Foucher</i>	62
CHAPTER 5	Defending a Particular Conception of the Republic of Letters: Leibniz on the <i>Querelle des anciens et des modernes</i> and the Republic of Letters	69
	<i>Placing Erudition and History in Defence of Religion</i>	76
CHAPTER 6	The Struggle for the Heart of the Republic of Letters: Science and the State	83
	<i>‘Funny Thought’</i>	89
CHAPTER 7	Infiltrating Colbert’s State Republic of Letters	95
	<i>Louis Ferrand and the Pursuit of Abulfeda’s Geography</i>	101

	<i>Pierre de Carcavy and Leibniz's Calculating Machine</i>	108
CHAPTER 8	Finding a New Patron	119
	<i>Learning from France for Germany</i>	125
PART II		127
CHAPTER 9	Leibniz in His Correspondence with Duke Johann Friedrich (1676–79): The Sincerity of a Projector	129
	<i>Leibniz as Court Librarian</i>	131
	<i>Widening His Sphere of Influence</i>	134
	<i>A 'Walking Encyclopedia' at the Court of Hanover</i>	136
	<i>Leibniz's Own Projects and Specialness</i>	139
	<i>Secrecy and Control</i>	148
	<i>Between Artifice and Sincerity</i>	153
CHAPTER 10	Leibniz with His Fellow Projectors	161
	<i>Johann Daniel Crafft and the Phosphorus Affair</i>	164
	<i>Holding up a Mirror to Himself: Leibniz and Johann Joachim Becher</i>	175
	<i>Leibniz's Double Standards</i>	185
CHAPTER 11	Establishing a European Network from Hanover	191
	<i>Building the Ducal Library: Leibniz with Brosseau</i>	192
	<i>Leibniz's homme à tout faire: Adolf Hansen</i>	193
	<i>Leibniz with Christian Philipp</i>	200
	<i>An Impasse in Germany: Leibniz with Hermann Conring</i>	204

CONTENTS [xi]

CHAPTER 12	Setting up a Scientific and Intellectual Network	211
	<i>Sharing Scientific and Technical Curiosities</i>	214
	<i>Setting Himself up as a Master Informer</i>	218
CHAPTER 13	Facing Dead-ends in France	225
	<i>Instrumentalizing Phosphorus</i>	225
	Conclusion	237

Acknowledgements · 243

Appendix: Translations of Key Texts Discussed · 245

Bibliography · 271

Index · 289

Introduction

‘HIS TEMPERAMENT APPEARS to be neither purely sanguine, nor choleric, nor nurturing, nor merely melancholic. . . . Ever since he was a boy he led a sedentary lifestyle and did little exercise. Since his youth he began to read a lot and think about a lot of things, so that he was self-taught in most of his knowledge; he also burns with desire to penetrate everything deeper than usual and to invent something new. He does not begin work without fear, but he continues it courageously. . . . Nature gave him an excellent power of invention and judgement and it will not be difficult for him to think up many things, to read (with understanding), to write, to speak extemporaneously, and to develop intellectual concepts, if necessary, through persistent reflection to investigate to the very bottom of what leads me to conclude that he has a dry and spiritual brain.’¹ The Leibniz who described himself in these terms, at the age of around 50, was an established courtier, renowned throughout Europe as a philosopher and mathematician. But his path to this fame was not straightforward.

While Leibniz scholarship has been increasing for the past thirty years, it has focused primarily on his philosophical thought, and relatively few attempts have been made to try to relate Leibniz to his time and social and intellectual milieus.² Recent scholarship has contributed to the mythologization of Leibniz as a ‘great natural genius’ who could apply himself with ‘equal vivacity’ to any field, as Bernard de Fontenelle put it in his *Eloge* of 1717. According to this type of narrative, the full breadth of Leibniz’s work

1. Leibniz, ‘Imago Leibnitii’, in Müller and Kronert, *Leben und Werk* (1969), 1–2.

2. Excellent examples of recent Leibniz scholarship include Antognazza, *Leibniz* (2009); Brown, *The Young Leibniz* (1999); Look, *Continuum Companion to Leibniz* (2010); and Nadler, *The Best of All Possible Worlds* (2008).

and heterogeneous activities can be read in light of an underlying ‘unity’.³ Other approaches have consisted in contrasting his public and private personae, or in interpreting him as esoteric, opportunistic, even Machiavellian.⁴ These accounts, while often valid on their own terms, espouse reductive approaches to Leibniz that confine him to a vacuum of ideas without situating him in his social, cultural, or political contexts.

Leibniz is traditionally depicted as a radical rationalist and philosopher who was detached from worldly concerns and impervious to the lot of his fellow men. Although scholarly practice, notably in the history of science, has sought in the past fifty years to break away from such ahistorical interpretations, Leibniz has curiously remained largely immune from this trend. Yet we need to rediscover him within the context of the intellectual effervescence of late seventeenth- and early eighteenth-century European cultural debates, not least because many of the texts on which Leibniz’s present reputation are based were not published until long after his death. In fact, in his lifetime and in particular during his so-called Paris sojourn (1672–76), Leibniz was better known as a diplomat, a lawyer, a theologian, and above all a mathematician than as a philosopher.⁵

This book endeavours to rediscover Leibniz as a participant in the learned and courtly communities he frequented in the years 1672–79—that is, the years of his Paris sojourn and those immediately following, when he found employment back in Germany at the court of Duke Johann Friedrich of Hanover. Leibniz arrived in Paris in early March 1672 on a diplomatic mission on behalf of his patron, Johann Christian von Boineburg, aiming with his infamous ‘Egyptian plan’ to divert Louis XIV from his plans for military expansion in Europe, as will be examined in the first part. Although ultimately unsuccessful, this mission allowed Leibniz to remain in Paris and take full advantage of its intellectual and scientific life at a time when—with the recent creation of several *académies* and the publication of such seminal works as Malebranche’s *De la Recherche de la Vérité* and Boileau’s *Art Poétique*—the city was the most sophisticated and advanced centre of European culture. I endeavour to clarify how his visit to Paris constituted an important moment in his development, and to what extent it provided him with a new impulse upon his return to Germany. More broadly, this book sets out to examine how those six years affected him and his work, how they were formative years for him,

3. Antognazza, *Leibniz* (2009), 5.

4. Russell, *Philosophy of Leibniz* (1900); Stewart, *The Courtier and the Heretic* (2006); Snyder, *Dissimulation* (2009).

5. Garber, ‘Leibniz’s Reputation’ (2009b), 281.

and how he navigated the various worlds he encountered and with what success. I have chosen the years 1672 and 1679 because they demarcate, respectively, Leibniz's departure for Paris from Mainz and the death of Duke Johann Friedrich, one of his more supportive patrons.

'Internalist' readings tend to isolate the evolution of science and portray its pursuit in terms of a disinterested quest for truth, divorced from mundane or petty concerns.⁶ Such assessments tend to divorce the production of ideas from their historical contexts and to occlude the forces that have helped shape them. In particular, they obscure the complex dynamics at play in the practice of 'normal science' in Leibniz's time.⁷ Far from being a solitary activity, science and more broadly the pursuit of knowledge were fundamentally 'dialogical', their progress lying in a constant stream of exchanges, collaboration, and cooperation between like-minded individuals labouring towards the common ideal of 'citizenship of the mind'.⁸ In this manner, the constitution of knowledge was inextricably linked to power structures and established norms, both within and outside the Republic of Letters. Much of Leibniz scholarship has steered clear of delving into the social, cultural, and political circumstances that affected the constitution of knowledge. In early modern societies, one's credibility depended largely on one's social status. Although scholars and patrons alike cultivated the image of pure scientific freedom and the unencumbered pursuit of knowledge, the ability to secure patronage and, increasingly from the 1670s onward, attachment to a research institution played a decisive role in scholars' ability to establish themselves on the intellectual map.⁹ Even the most disinterested scholar needed to be a courtier to some extent and to adhere carefully to the norms and prescribed conduct of his intellectual community. Thus, far from being 'pure', the pursuit of science and scholarship were heavily conditioned by the social structures in which they were conducted.¹⁰

Leibniz was an ambiguous figure whose roles and personae, reflecting his various milieus, particular tasks, and personal aspirations, were far from static. His work cannot be read in isolation from those factors. Exploring how he sought to position himself and navigate the different

6. See Shapin, 'The Mind Is Its Own Place' (1991).

7. Kuhn, *The Structure of Scientific Revolutions* (1962).

8. Laerke, *Les Lumières de Leibniz* (2015), 50; see also Ramati, 'Harmony at a Distance' (1996), 451; Blay and Halleux, *La science classique* (1998), 26; Fumaroli, *La République des Lettres* (2015), 73.

9. Stegeman, *Patronage and Services* (2005), examines the patronage of savants.

10. See Shapin, *Never Pure* (2010).

intellectual, scientific, and courtly worlds, this book will reveal him to be a man of multiple identities. In particular, I hope to clarify how, in his early career, Leibniz articulated a niche for himself at the intersection of the sociopolitical and scientific realms. This analysis—based on a more extensive examination than has been attempted previously of his and his peers’ correspondence (in French, German, and Latin) during the relevant years—cultivates a sensitivity to the many contextually related dimensions that characterized his personality. My examination will be confined primarily to volumes I, 1; I, 2; II, 1; III, 1, and III, 2, of the ongoing standard *Akademie-Ausgabe* (1923–).

In this work I shall be attending in particular to the following questions. How did Leibniz establish himself as a young scholar? How did his peers perceive him? Which social and professional identities did he endorse at the time? To what extent was he a ‘projector’ and perceived as such? How much flexibility—social, political, and epistemological—was he afforded within the Republic of Letters and the absolutist political realms he frequented? To what extent did his positions as scholar, courtier, and adviser overlap, and to what extent did they diverge? How did these multiple roles and identities coexist? What kind of rationality did he propound, and did it bring him in conflict with competing intellectual or scholarly models? What was his own view of the Republic of Letters? How did he understand Colbert’s enterprise? To what extent did his intellectual aims overlap with his professional duties? And what ultimately drove his various projects?

Considering the many ambiguities and layers at play, this monograph does not pretend to offer a comprehensive exposition of Leibniz’s thought or life in the years 1672–79, let alone of the Republic of Letters or of the different milieus in which his thought evolved. It does not purport to be exhaustive but seeks rather to shed light on aspects of Leibniz’s life, activities, and *modi operandi* that have received little or less attention. For this reason, I have excluded or touched only briefly on certain well-trodden topics, including Leibniz’s mathematical peregrinations and his formulation of the calculus, his trip to London in 1673, the details of the elaboration of his calculating machine, his encounter with Spinoza, his dispute with Newton, as well as his project towards theological reconciliation, all of which have been covered extensively by remarkable scholars.¹¹

11. This includes Mogens Laerke on Leibniz’s relationship with Spinoza, Joseph E. Hofmann on Leibniz’s mathematical work in Paris, Philip Beeley on his trip to London, Matthew L. Jones on his building of the calculating machine, and Maria Rosa Antognazza on his lifelong work on theological reconciliation.

Any substantial reiteration on my part would be largely superfluous. For reasons of space, I have also passed over elements that feature minimally or not at all in the correspondence, such as the University of Paris, the various Parisian political factions operating at the time, and Leibniz's fledgling relationship with Bossuet. Crucially, too, the immensity of the *Nachlass*—which for this period alone spans thousands of pages—the time elapsed, and the frequent gaps in information owing to the number of missing letters, notably in Leibniz's Parisian period, rule out producing categorical statements and definitive conclusions. Accordingly, I have sought to strike a balance between factual certainty and conjecture, and propose to offer specific observations and tentative conclusions which will, I hope, lay the foundations for future research.

Because the relationship between Leibniz and the Republic of Letters was a reciprocal one, I seek by examining Leibniz also to increase our understanding of the nature and workings of that community. The 'Republic of Letters' refers to a transnational community of scholars in the seventeenth and eighteenth centuries who shared the same passion and belief in the exchange and promotion of knowledge through the deployment of rational methods. Transcending local, national, and even confessional difference, this 'universal auditorium' was governed by the principles of reciprocity and obligation and by the ideals of sociability, equality, *politesse*, and *honnêteté*.¹² Each member, at least in theory, had the sense of belonging to a virtual, albeit very real, larger and unified society, especially in times of political turmoil. Such, in any event, is the conventional view of the Republic of Letters, a view that reifies it by interpreting it as a stable institution unified by a set of shared principles and values. But my research has affinities with more recent scholarship that resists the seductive appeal of this beautiful and static ideal. In fact, the Republic of Letters in the second half of the seventeenth century was a highly unstable institution—multifarious, conflicted, diversified, and hierarchical—and it is important to rediscover its complexity and fluidity to understand better both the institution itself and Leibniz.¹³

This reassessment is all the more important considering Leibniz's increasingly central importance in the Republic of Letters. Even before

12. Blay and Halleux, *La science classique*, 25. See Borowski, 'Republic of Letters' (2021).

13. Goldgar, *Impolite Learning* (1995), 116. See also Wacquet, *Le Modèle français* (1989); Wacquet and Bots, *La République des Lettres* (1997); and, on Bayle's attempt to model conduct in the Republic through his *Dictionnaire*, van der Lugt, *Bayle, Jurieu* (2016).

arriving in Paris, Leibniz had established a network of correspondents throughout Europe, many of whom he remained in contact with for the rest of his life. In fact, according to Voltaire, writing decades later in his *Age of Louis XIV*, it was none other than Leibniz, ‘perhaps a man of the most universal learning in Europe’, who had set in motion the universal network of communication that underpinned this intellectual revolution: ‘There was never a more universal correspondence cultivated between philosophers’ than in Leibniz’s time.¹⁴ An ‘homme de réseaux’, Leibniz was known to his peers predominantly through his journal articles and letter-writing.¹⁵ His first publication, in the *Journal des Sçavans* of 25 March 1675, was on the topic of portable watches. Perhaps more than any of his contemporaries, Leibniz was a prolific correspondent, and it was above all in letters that he presented himself to his interlocutors.¹⁶ In his letters, which range widely in length and geographical destination and were often circulated beyond their addressees, he presented his views and engaged in discussion on an impressive array of topics spanning the fields of theology, jurisprudence, physics, mathematics, and philosophy. Leibniz’s correspondence has rightly been described as an ‘integral part of his work’,¹⁷ and he continued building his extensive network of correspondents throughout his life.

Through this network he kept abreast of the learned world’s *nova literaria* (including new publications, projects, and controversies) and other ‘curious’ topics, such as inventions and scientific discoveries, as well as information about European politics. This not only satisfied his personal need for information, but in being such an active and willing correspondent, sharing information and assisting his fellow savants, Leibniz so to speak ‘performed’ his membership of the Republic of Letters.¹⁸

Crucially, in such an economy of information, letters contained—indeed, constituted—‘goods’ in themselves, which Leibniz hoped to exchange where they were likely to be valued, and rewarded, the most.¹⁹ By setting up, as we shall see, an effective information network and exploiting the huge value of access to information, Leibniz hoped to build his credit and acquire ‘social capital’ beyond that of his actual position.²⁰

14. Voltaire, *Siècle de Louis XIV* (1874), 476.

15. Bertrand, ‘Leibnitz et ses réseaux’ (1999), 80.

16. Gädeke, ‘Gottfried Wilhelm Leibniz’ (2005), 263–64, 297; Gädeke, ‘Leibniz lässt sich informieren’ (2009), 85.

17. Utermöhlen, ‘Der Briefwechsel’ (1977), 90.

18. Gädeke, ‘Gelehrtenkorrespondenz’ (2020), 805.

19. Droste, *Im Dienst der Krone* (2006).

20. Gädeke, ‘Leibniz lässt sich informieren’, 86; Gädeke, ‘Gottfried Wilhelm Leibniz’, 282.

Consequently, he tended to handle information selectively and strategically, with a view to transcending his often limited official duties and leveraging his growing role within the Republic of Letters into a secure position at court or at the Académie des Sciences.²¹ With such an institutional base, combining scholarship with power, Leibniz discerned, he would be better positioned—and have more resources available—to implement his schemes than if he remained merely a savant.²²

Leibniz is often portrayed as an arch-rationalist: while this is true, it is not the whole story. He inhabited a world in which the intellectual and scientific marketplaces were increasingly saturated with ‘curiosities’, ‘marvellous observations’, and novel experiments, all of which challenged the limits of orthodox rationality.²³ Some inventions that were ‘foolish, unreasonable and impossible’ (*närrisch, irraisonable und ohnmöglich*) succeeded, while others that were well conceived ultimately failed and tested the bounds of possibility.²⁴ In addition to being a scholar and a courtier, Leibniz, perhaps crucially, operated as an aspiring capitalist and a projector.

The term ‘project’ (*projet*) first appeared in the Richelet (1680), Furetière (1690), and Académie française (1694) dictionaries with the definition ‘design’ (*dessein*) or ‘plan’, and more generally the projection or transfer of a tangible plan to the material world.²⁵

Projectors were generally inventors or entrepreneurs who set out to gain the trust and backing of a powerful patron, such as a ruler or aristocratic investor, for what they claimed would be a prestigious and financially profitable venture capable of yielding practical benefits.²⁶ By instrumentalizing knowledge and technical expertise, early modern states

21. Gädeke, ‘Gottfried Wilhelm Leibniz’, 292–93. Gädeke distinguishes between problem-, strategy-, and communication-oriented letters, but Leibniz’s letters often have all three orientations.

22. Gädeke, ‘Gelehrtenkorrespondenz’, 805.

23. Keller, *Knowledge and the Public Interest* (2015).

24. See Johann J. Becher, *Närrische Weißheit* (Frankfurt am Main, 1682), sig. A2, quoted in Breger, ‘Becher, Leibniz’ (2016), 37.

25. Smith, *The Business of Alchemy* (1994), 479; Zedler, *Grosses Vollständiges Universal-Lexikon* (1737), vol. 29. On projecting, see Keller and McCormick, ‘Towards a History of Projects’ (2016); and Ash, ‘Expertise and the Early Modern State’ (2014).

26. For more on projectors, see Borowski, ‘Projectors’ (2021); Graber, ‘Du faiseur de projet au projet régulier’ (2011); Keller, *Knowledge and the Public Interest*; Krajewski, *Projektemacher* (2004); Lazardzig, “Masque der Possibilität” (2006); Smith, *The Business of Alchemy*; Stanitzek, ‘Projector’ (2015); Troitzsch, ‘Erfinder, Forscher und Projektemacher’ (2004).

hoped to increase their power and become more prosperous.²⁷ Projectors in turn provided such expertise and positioned themselves as indispensable intermediaries, whose status at court would thus be legitimized.²⁸

Projects varied widely in nature and involved almost all types of ventures, including engineering, mining, constructing factories, ameliorating the condition of the poor and infirm, banking, treasure hunting, building projects, and fabricating perpetual motion machines as well as various schemes for turning base metals into precious ones. Some projects, which were rife in the 1670s and 1680s, were of a more political or scholarly nature with a view to reform.²⁹ This type of activity became so pervasive towards the end of the seventeenth century that Daniel Defoe famously nicknamed his era the ‘Projecting Age’.

Most projectors were inclined to present themselves as public advisers and counsellors—rather than as ‘projectors’ per se—in the context of nascent state absolutism and were parasitic on that office and its rhetoric, overtly placing their ideas or schemes in the service of a state or ruler.³⁰ Their projects were often highly speculative in nature, and many ended up unsuccessful and money-losing ventures, casting suspicion on the projector as more self-interested than devoted to the public good.³¹

It is worth noting that the idea of such a character, a proposer of projects, in all its ambivalence, antedated the term.³² In the seventeenth century the idea of the ‘projector’ could be neutrally descriptive or negatively evaluative, depending on the context. It seems to have acquired an increasingly negative connotation and been deployed as a polemical category as it crystallised over time, becoming synonymous with self-promotion and deceit, and the object of criticism and satire in many quarters.³³ Leibniz’s use of

27. Keller, *Knowledge and the Public Interest*, 275.

28. See Wakefield, *The Disordered Police State* (2009); and Ash, ‘Expertise and the Early Modern State’, 13, 21: ‘The early modern state, then, was simultaneously a generator, a consumer, and a product of expertise’; ‘Operative knowledge thus became the byword of the new natural philosophy.’

29. Borowski, ‘Projectors’.

30. See Condren, *Argument and Authority* (2006). In *The Occasion of Scotland’s Decay in Trade* (1705), the tremendously successful projector William Paterson did not shy away from launching an attack on projectors and presenting himself as serving the welfare of his country. My thanks to Ryan Walter for bringing this source to my attention.

31. Graber, ‘Du faiseur de projet au projet régulier’, 10.

32. Krajewski, *Projektemacher* (2004); Keller and McCormick, ‘Towards a History of Projects’ (2016).

33. See, for example, Charles-François Lebrun’s unforgiving characterization of the ‘faiseurs de projets’ in 1790: ‘The trader, the manufacturer, the cultivator are not governed . . . by the imaginary calculations of projectors. Projectors’ deplorable calculations

the verb (generally the French *projeter*) is consistently neutral during the period under examination, even if his approach to the idea of the projector is much more nuanced.

The projectors' fundamental ambiguity—and the concept's ambiguity, with a valence shifting between ingeniousness and charlatanism—can be ascribed to the grey, ill-defined zone in which they operated, between neatly codified landscapes, disciplines, and emergent roles and personas such as that of the counsellor or philosopher.³⁴ This need for certainty and mastery did not necessarily match the messiness and unpredictability of reality. The figure of the projector developed at a particular historical juncture, against a background of technological inventions, discoveries, and nascent commercialism.³⁵

In this sense, the projector embodies the epoch's contradictions and epistemological ambiguity, attesting to the precariousness of the scientific inventiveness and technological progress that the epoch embraced but often underestimated.³⁶

As Pamela Smith has argued, this *homo novus* was a 'liminal individual' whose life embodied the 'fluid cultural moment when "science" had not yet achieved its preeminent modern position as the sole legitimator of truth, but instead had to compete with a number of other intellectual pursuits.'³⁷

Projection emerged as the hallmark of an economy of knowledge and action characterised by emulative activity, emerging mercantilism, newly founded natural philosophy, and a crisis of authority. Leibniz's existence as a projector, his grand schemes, and his 'wise foolishness' were made possible by a particular type of fluid epistemology which itself helped 'erect a multivalent vision of reality and knowledge'.³⁸

are not intended for them but are like nets stretched out to the ignorant multitude that feeds on words and nourishes itself with hopes and chimeras, and which, influenced by the stream of opinions, always remains the plaything of illusions and the victim of credulity.' Lebrun, 'Opinions . . . sur le projet' (1790), 23.

34. Condren, Gaukroger, and Hunter, *The Philosopher in Early Modern Europe* (2006), examines the rise of the figure of the philosopher through forms of self-cultivation and intellectual deportment within particular institutional settings in the early modern period.

35. Borowski, 'Projectors'; Stanitzek, 'Projector'.

36. Graber, 'Du faiseur de projet au projet régulier', 12: 'The problem of the project maker—enthusiasm for innovation and new possibilities of profit, coupled with a deep uncertainty about the morality, the viability, and the interest of these companies which could be merely chimeras or scams—is above all at the heart of the modern development of science and technology.'

37. Smith, *The Business of Alchemy*, 4–5, 10.

38. Smith, 270.

Leibniz was keen to instrumentalize this state of pervasive doubt and uncertainty in order to explore the ‘realm of possibilities’, to reform knowledge, and to advance his own projects, from his ‘Egyptian plan’ to the production of phosphorus to his scheme outlined in his essay ‘Funny Thought’.

A more experimental and empirical approach to epistemology and reality seemed to prevail over any logical a priorism or static concept of ‘truth’, and consequently distinctions between rational and irrational thinking, between fact and fiction, could be far from clear-cut: whether a scheme would later be judged illusory was contingent upon whether it could be successfully reduced to practice. ‘Speculating’ in the attempt to reveal reality in its latent possibilities was one thing; reducing to practice, even though deemed a simple matter of execution, was quite another. The passage from theory to practice—often depending heavily on external and unpredictable conditions—regularly proved impossible. Since the bounds of possibility could not be determined in advance, only experience would establish whether the seemingly impossible was actually achievable.³⁹

Part of my task, then, consists in exploring how Leibniz presented himself within the scholarly and courtly circles he came to frequent in Paris and Hanover, and, more generally, how he fashioned various socio-professional identities for himself according to his interlocutor. This exploration will expose the tensions and discrepancies between Leibniz’s self-presentation (including possible contradictions among his different socioprofessional identities) and his perception by others. What will come more clearly into view as a result will be Leibniz as he sought to advance his scientific, philosophical, and theological agendas, to influence intellectual and political debates in his early years—and as he was known to his contemporaries in those years, rather than as he came to be known by later generations (especially after the posthumous publication of some of his most important philosophical and theological writings).

By highlighting the fragmented and precarious nature of his existence in the years 1672–79, full of false steps and setbacks and disappointments, this book seeks to challenge the common presentation of Leibniz as a towering genius. For such an understanding of him bears little resemblance to the complex ways in which he presented himself and his work to his contemporaries or how he was perceived during his lifetime—the latter

39. See Keller, *Knowledge and the Public Interest*, 281: ‘Leibniz utilized the concept of communally desired objects to advance his particular investigations toward presumed impossibilities.’

being in fact very difficult to gauge. Leibniz did not operate in a vacuum but had to learn to navigate as well as he could a complex historical context and a tense political climate characterized simultaneously by intense plasticity and rigidity on many levels. His various projects were regularly interrupted or deferred, sometimes resumed, often abandoned altogether. His thought and career emerged through, not in isolation from, his social existence: the former could not have emerged as they did without the latter. The present work therefore endeavours to rediscover Leibniz in the complexity, nuances, and contradictions of that social existence in some of his most formative years. Drawing on material that is generally sidelined for being considered superfluous or irrelevant, I have sought to reconstitute, little by little and to the extent possible, the relatively small world in which Leibniz evolved and his place in it. The letters acted as pieces of a puzzle through which I endeavoured to address the following enigma: Why wasn't arguably one of the most brilliant minds of his time revered in his younger years? Why wasn't he better known? And above all, who was he?

Following a broadly chronological as well as thematic structure, this book is divided into two sections. The first section (1672–76) examines Leibniz's rapport with his patron Johann Christian Boineburg and his Egyptian plan. It offers an overview of his political and scientific activities in Paris and the various figures he interacted with there (including the French theologian Antoine Arnauld, the orientalist Louis Ferrand, and the Dutch savant Christiaan Huygens), as well as of Leibniz's involvement in the intellectual and scientific debates of his time (such as Cartesianism, the *Querelle des anciens et des modernes*, and the vision of the Republic of Letters that he sought to promote). The second section (1677–79) examines how, having failed to infiltrate Colbert's state Republic of Letters—either by funnelling books (such as the much coveted *Abulfeda*) to its highly placed members, or by promising new projects to Pierre de Carcavy, the minister's right-hand man—Leibniz found his way to the court of Johann Friedrich in Hanover, from which he set out, despite his relatively lowly official position, to carve out a sphere of influence for himself, not least as the duke's omniscient and indispensable commercial and technological adviser, intent on securing beneficial and profitable schemes—such as the production of phosphorus—for his employer. This effort was not without some interesting tensions, including with his fellow projectors Johann Daniel Crafft and Joachim Johann Becher, since Leibniz was himself a projector eager to promote his own schemes. As this book sets out to show, even while Leibniz was busy creating one of most successful epistolary and information

networks of the time, he still hoped to insinuate himself into the Parisian Académie des Sciences.

During his frantic activities and networking in his early years, Leibniz encountered little success. He was in a way a misfit, a quasi-public savant obsessed with secrecy, whose mode of interaction could irk as he attempted to develop a new status within the Republic of Letters that exceeded its existing codes. He was a man of contradictions, torn between the ideal of the selfless savant and having to operate in the real world, a political being accountable to his employer, a savant with unclear allegiances seeking to belong to a world and yet, at the same time, incapable of fitting in and, so to speak, staying in place. At a time when the world of scholarship did not exist as a counterweight to absolutist power but, on the contrary, largely depended on it, Leibniz struggled with the politics of scholarship. Above all, the person we have come to perceive as a towering genius was a deeply human—*all too human*—individual.

INDEX

- Abulfeda: early work of, 105; *Geography*, 106; Leibniz's quest for manuscript, 107–8
- Academia Naturae Curiosorum, 16
- Academicism, 63
- Académie de Montmor, 50, 109
- Académie de Physique, 70
- Académie des Sciences, 7, 12, 20, 33–34, 50, 85, 97, 102, 110, 112, 113; Leibniz's calculating machine, 116–18; Parisian, 141; smelting furnaces, 168
- Académie Royale des Sciences, 95
- 'Academies of Games', 89, 92, 264
- Academy of Sciences, Leibniz founding a German, 18–19
- Account of the Present State of the Republic of Letters, translation of, 258–61
- Ad Usum Delphini* series, 200
- Advis pour dresser une bibliothèque* (Naudé), 131
- Aerial Noctiluca or New Phenomena and a Process of a Factual Self-shining Substance*, *The* (Boyle), 175
- Age de Louis XIV, L'* (Voltaire), 6
- Albert the Great, 18
- Alsted, Johann Heinrich, *Encyclopaedia*, 15
- Ancient Academy, 65
- Andreae, Johannes, utopian models of, 15
- animism, Perrault's, 62
- Anna Eleonore, Princess of Hessen-Darmstadt, 129
- Antibarbarus* (Nizolio), 24
- anti-Cartesians, 61
- Apollo, 261
- Aquinas, Thomas, 257
- Archimedes, 258, 266
- Aristotle, 74, 82, 146, 245, 252, 256, 257, 261; history of philosophy, 101
- Arnauld, Antoine: Claude and, 102; Ferrand advising Leibniz on, 103; Isaac Lemaître de Sacy and, 55; Leibniz and, 11, 35, 54–62; recommending Leibniz, 37
- artisans and craftsmen, Parisian, 43–44
- Art Poétique* (Boileau), 2
- atheism, 45, 201, 212
- August, Ernst: accession of, 235; Friedrich's successor, 188, 189; Leibniz on library, 132
- Augustine, 257
- Bacon, Francis, 146; archetype, 15; history of philosophy, 100
- Beauval, Henri Basnage de, Huet and, 71
- Becher, Johann Joachim: *Foolish Wisdom and Wise Foolishness*, 174, 184; gold extraction from sand, 181–83; gold-making scheme, 138; Leibniz and, 11, 145, 152, 170, 175–85; topics of interest to, 176; on transmutation of silver to gold, 173
- Bernard, Edward, Orientalist scholar, 105
- Berthet, Père: Jesuit, 35; mathematician, 103, 214
- Biagioli, Mario, self-fashioning of, 157–58
- bibliothèque à sa phantasie. *See* library
- Bibliothèque orientale* (d'Herbelot), 105
- Boineburg, Johann Christian von: convert to Catholicism, 55; patron of Leibniz, 2, 11, 18, 23–31, 119, 192, 237; recommending Leibniz, 34, 36–38
- Boineburg, Philipp Wilhelm, Leibniz as tutor to, 38, 120
- Bossuet, Jacques Bénigne: *Discours sur l'histoire universelle*, 72; Leibniz and, 5, 101, 152, 219; Leibniz and Huet, 100
- Bouillau, Ismaël, mathematician, 48
- Boyle, Robert: Leibniz and, 48; phosphorus sample, 175
- Brand, Hennig: Leibniz's handling of, 188–89; Leibniz's impression of, 171; phosphorus and, 170–75, 220; physician, 151; project, 158; on transmutation of silver to gold, 173
- Breger, Herbert: on Becher, 185; on Becher and Leibniz, 175

- Brevis demonstratio erroris memorabilis Cartesii et aliorum circa legem naturae* (Leibniz), 234–35
- Brosseau, Christophe, 192; Douceur's claim and, 187; Leibniz with, 192–93
- Brown, Stuart, on 'philosophical alliance' between Leibniz and Foucher, 64
- Brunswick-Luneburg mining office, 165
- Buot, Jacques, mathematician, 59
- Burnett, Thomas, Huet and, 71
- Bury, Emmanuel, analysing Huet, 73
- Caesarinus Furstenerius* (Leibniz), 134
- calculating machine, Leibniz's, 108–18, 169
- Campanella, Tommaso, utopian model of, 15
- Capella, Martianus, 253; *De nuptiis Philologiae et Mercurii*, 75
- Carcavy, Pierre de: background of, 108–9; Ferrand recommending, to Leibniz, 103–4; Leibniz and, 34, 59, 79, 162; Leibniz's calculating machine and, 108–18; translation of Leibniz to (1671), 248–51
- Cardano, Girolamo, utopian model of, 15
- Cartesian(s), 61: dogmatism, 63; dualism, 63; intuitionism, 85; Jansenists, 56; Leibniz refuting, 91; Leibniz rejecting, 81–82; methodology, 212–13; motion, 50; philosophy, 53–54; principles of knowledge, 64
- Cartesianism, 11, 53, 54, 61, 63, 100, 212, 237; Huet countering, 73–74; Jansenist, 78; rise of, 101; threat to Christianity in, 56
- Casaubon, Meric, 252
- Cassini, Giovanni Domenico: Leibniz and, 34, 47; recruitment of, 96
- Catholic Church, 39
- Catholic doctrine of transubstantiation, 56, 57
- Catholicism, 55, 239
- Cavalieri, mathematical literature, 50
- Chapelain, Jean: Conring and, 205; on direction of literary life in France, 98; Huet and, 70; letter to, 88, 98, 99
- Characteristica geometrica* (Leibniz), 213
- Cherubim, Père, *La nature et presage des Comètes*, 220
- Chevreuse, Charles Honoré d'Albert, duc de, 35, 117, 118; Leibniz on phosphorus, 172, 226, 229, 231–32
- Christian doctrines, 100
- Christianity, threat of Cartesianism to, 56
- Christina (Queen) of Sweden, 71
- Chrysippus, 256
- Church of France, 55
- citizenship of the mind, ideal of, 3
- Claude, Jean: Arnauld and, 102; Calvinist minister, 56
- Clerselier, Claude, Leibniz and, 35
- Codex Hamburgensis, 71
- Colbert, Jean-Baptiste, 42; Ferrand and, 101; grand design of commerce and policy, 43; as King's finance minister, 95; Leibniz and, 226–31, 233; Leibniz on, 111, 112, 113, 124, 223; Republic of Letters, 237, 241; strategy concerning a state Republic of Letters, 96–98; translation of letter from Leibniz to (1679), 266–68; translation of letter from Leibniz to (1682), 268–69; vision of learning, 94
- Collège de Clermont, 47
- Collins, John, Leibniz and, 48
- Comenius, Johann Amos, design of 'house of wisdom', 15
- Comiers, Claude: inventor, 216; philosopher, 195
- common good, achieving, 93–94
- conatus*: concept of, 14; term, 57n24
- Confessio Naturae* (Leibniz), 57
- Confessio philosophi* (Leibniz), 46, 60
- Conring, Hermann: Chapelain and, 98; Leibniz and, 192, 204–9, 238; letter to, 70, 71, 88; recruitment of, 96; Republic of Letters, 109
- Consilium Aegyptiacum* (Leibniz), 26n14, 71, 107
- Consilium de maris mediterranei dominio et commerciis regi christianissimo vindicandis* (Conring), 205
- Consilium de Scribenda Historia Naturali, 142
- Conspectus operum Aethiopicum* (Vansleben), 107
- consubstantiation, Lutheran doctrine of, 57
- Consultatio de Naturae Cognitione, 142
- Copernicus, 18

- Cordemoy, Géraud de, philosopher, 42
 Corpus Juris Reconcinnatum, 14
 Cotelier, Jean-Baptiste, Leibniz and, 35
 Council of Trent, 42
 Courtès, Huguette, 'impossible dialogue', 60
 court librarian, Leibniz as, 131–34
 Crafft, Johann Daniel: devotion to public good, 166–67; entrepreneurial drive, 164–65; financing of, 169–70; as informant on Becher to Leibniz, 179–81, 219; Leibniz and, 11, 114–15, 163, 238; Leibniz on, 110, 138–39; phosphorus and, 170–75
Criticism of the Bible (Simon), 219
Critique de la Recherche de la vérité (Foucher), 62n53, 63, 65
 Crusades and Saint Louis, Ferrand on, 101
 curiosities, validity of, 238
 Cusson, Jean, publisher of *Journal des Sçavans*, 41
- Dacier, André, humanist, 72
 Dacier, Anne, humanist, 72
 Dauphin, Leibniz to (1675), translation, 254–58
De arte combinatoria (Leibniz), 114
 de Bessy, Frénicle, geometer, 48
De corporum concursu (Leibniz), 212
 Defoe, Daniel, on 'Projecting Age', 8
 Deimerbroeck, Johann van, publication of de la Fayette's novel, 71
De jure suprematus ac legationis principum Germaniae (Leibniz), 135
 de la Loubère, Simon, geometric reason, 214
De la Recherche de la Vérité (Malebranche), 2, 55, 61, 63
 de la Roque, Jean Paul: *Journal des Sçavans*, 35, 191; journal editor, 222–24; Leibniz and, 194; Leibniz on phosphorus, 172
 de Lauravy, Jean, on royal power in marriage, 39
 Democritus, 256, 266
Demonstratio Evangelica (Huet), 72, 76–78
Demonstrationes Catholicae (Leibniz), 24, 45–46, 141
De nuptiis Philologiae et Mercurii (Capella), 75
De origini iuris Germanici (Conring), 204
- de Sacy, Isaac Lemaître, Arnauld and, 55
 des Billettes, Gilles Filleau, Leibniz and, 34, 115
 Descartes, René: absolute intellectualism of, 78; Cartesianism and, 212; on existence of external world, 64, 65, 66; history of philosophy, 100; Leibniz and, 65; Leibniz on admiration for, 81; mathematical literature, 50, 54; physical teachings, 85; proof of God, 213
 de Scudéry, Madeleine, Leibniz and, 35
 Desgabets, Dom Robert, Malebranche and, 63
 design, definition of, 7
 de St Vincent, Grégoire, mathematical literature, 50
De summa rerum (Leibniz), 46
 Dew, Nicholas, on Abulfeda's *Geography*, 106
 d'Harouis, Nicolas, Ollivier and, 196
 d'Herbelot, Barthélemy, *Bibliothèque orientale*, 105
Discourse on Metaphysics (Leibniz), 61
Discours sur l'histoire universelle (Bossuet), 72
Dissertatio de arte combinatoria (Leibniz), 13, 178
 Douceur, Noel, on malleability of cast iron, 186–87
 'Drôle de Pensée' (Leibniz). *See* 'Funny Thought'
 ducal library, Leibniz and Brosseau building, 192–93
 duc de Chevreuse
 duc de Roannez, 34
 du Fresne du Cange, Charles, Leibniz and, 35; Mainz's envoy in Paris, 38, 115, 119
 du Fresne, Marc-Joseph Marion, 115; death of, 119
 Durand, Guillaume, 257
- Eckhard, Arnold, Leibniz and, 191, 213, 214
éclater, word, 29
 Egyptian plan, Leibniz's, 25, 26, 27, 29, 37, 45, 94
 Eisenhardt, Johann, Leibniz and, 192, 211
 Elector of Mainz, Crafft and, 165–66
 Elector of Saxony, Crafft and, 166
Elements (Euclid), 59
 Eleonore, Anna, Hessen-Darmstadt, 129

- Elers, Martin, mercantile project-maker, 161
- Elizabeth (Princess), 212
- Eloge* (Fontenelle), 1
- Elsevier, Daniel, bookseller, 133
- Elsholz, Johann Sigismund, Leibniz and, 192
- Eltz, Friedrich Casimir zu, Leibniz and, 130
- employment, Leibniz's search for potential, 120–25
- Encyclopaedia* (Alsted), 15
- Ens perfectissimum*, Descartes's proof of, 213
- entrepreneurs, as projectors, 7–9
- Entretien de Philarète et d'Eugène* (Leibniz), 135, 186
- Ernst August, elector of Hanover: accession of, 235; Friedrich's successor, 188, 189; Leibniz on library of, 132
- Ethica* (Spinoza), 186, 219
- Ethica and Opera Posthuma* (Spinoza), 186
- exaggeration, Leibniz and, 136, 145, 148
- Exposition of the Catholic Doctrine* (Bossuet), 152
- Fabri, Honoré, mathematician, 214
- Fermat, Pierre de, Carcavy and, 108–9
- Ferrand, Louis: background of, 101–2; Leibniz and, 11, 45, 55, 102–4; Leibniz on calculating machine, 116–17; pursuit of Abulfeda's *Geography*, 101–8; Republic of Letters, 109, 219
- Ferrarius Locupletatus* (Parisino), 102
- Filleau des Billettes, Gilles, Leibniz and, 34, 115
- Fleischer, Tobias, as librarian, 131
- Fogel, Martin, Leibniz acquiring collection of, 134
- Fontenelle, Bernard de, on Leibniz, 1
- Foolish Wisdom and Wise Foolishness* (Becher), 174, 184
- fortune, 27–28, 30
- Foucher, Simon, Leibniz and, 35, 62–67, 191
- François I, king of France, 74
- Frederick of Güldenlow, Count Ulrik, employment offer to Leibniz, 120
- Free Imperial Cities, 177
- French Académie, 20. *See also* Académie des Sciences
- French East India Company, 96
- Friedrich, Johann (Duke): death of, 3, 139–40, 235; as employer to Leibniz, 2, 40, 121; Leibniz and, 11, 28, 45, 191; Leibniz and Colbert, 226; Leibniz and control of projects, 148–53; Leibniz and ideas for public good, 97n12; Leibniz as 'walking encyclopedia' at court of Hanover, 136–39; Leibniz confiding to, 58; Leibniz correspondence with, 122–24, 129–59; Leibniz' employment in court of, 2; Leibniz introduction to phosphorus, 171–72; Leibniz negotiating on cast iron process, 186–87; Leibniz on Arnauld, 60; Leibniz on Becher's process, 181–82; Leibniz on benefits, 238; Leibniz on Carcavy, 109; Leibniz on Crafft, 166; Leibniz reporting news to, 99; Leibniz settling in court of, 121; Leibniz's letter to, 154; parents of, 129; plans and public welfare, 141; steel production, 167; translation of Leibniz to (1679), 264–66
- 'Funny Thought' (Leibniz), 89–94; translation of, 261–64
- Fürstenberg, Wilhelm Egon von, betrayal of empire, 40
- Furstenerius, Caesarinus, Leibniz's pseudonym, 134–35
- Galileo, 100, 146, 259; Carcavy and, 109; history of philosophy, 100; role in science, 158; on satellites of Jupiter, 157
- Galland, Antoine, Thévenot hiring, 106
- Gallois, Jean: Leibniz and, 51–52, 136, 191, 194, 199, 225–30, 232–34; mathematics, 214; proposing Leibniz to Académie, 117–18
- Gamans, Père, Jesuit, 35
- Gassendi, Pierre, 108; Huet and, 70
- Geography* (Abulfeda), Ferrand and pursuit of, 101–8
- Geography* (Ptolemy), 105
- Georg, duke of Brunswick-Lüneburg-Calenberg, 129
- Germany, Leibniz in, 125–26
- Gervais, Père, Jesuit, 35
- glory, Leibniz on, 85–86
- God's plan, achieving common good, 93–94
- gold extraction from sand, Becher's process, 181–83

- Graevius, Johann Georg: Huet and, 71, 75, 75n26; Leibniz's letter to, 99; Leibniz on Becher to, 178
- Grandamicus, Pater, on magnetism, 103
- Gravel, Abbé de, 102n34; as intermediary for Leibniz, 104, 107, 108; peace conference invitation and, 124
- Gresham College, 15
- Grote, Otto, Leibniz and, 130
- Gruber, Caspar, bookseller, 133
- Gudius, Marquard, classical scholar, 79
- Guericke, Otto von: Republic of Letters, 109; vacuum experiments, 115
- Guiliemi Pacidii plus ultra, praefatio* (Leibniz), 82
- Guldin, mathematical literature, 50
- Habbeus, Christian: Leibniz proposal to, 43, 119; Philipp and, 201; recommending Leibniz, 123; recommending Leibniz to Duke Friedrich, 130; translation of Leibniz to (1673), 253–54
- Habermas, Jürgen, interpretations of public sphere, 96
- Hansen, Adolf, Leibniz and, 192, 193–200, 217, 223
- Hardouin, Jean, classicist, 72
- Hardy, Claude, geometer and orientalist, 48
- Hartzing, Peter: Leibniz collecting information on, 186; pumping plan for mining, 149
- Harz mines, pumping system in, 142, 149–50
- Harz mountains, 165
- Harz project, 148, 151, 158
- Hauerstein, Thomas Heinrich, bookseller, 133
- Hertel, court librarian, 133
- Hesenthaler, Magnus, Leibniz and, on Schickard manuscript, 107–8
- Hessen Rheinfels, Ernst von, 145
- Hevelius, Johannes, recruitment of, 96
- Hippocrates, 258
- Historia inventionis Phosphori* (Leibniz), 170
- Hobbes, Thomas: high-profile thinker, 57; Leibniz and, 14, 49; Leibniz's letter to, 99; moral teachings, 85
- Hochstrasser, Tim, on Leibniz and success at court, 155
- Hofmann, Joseph E., on Leibniz's mathematical work, 4n11
- Holy Roman Emperor(s), 37, 204
- Holy Roman Empire, 13, 135, 177; advancement of science, 16
- holy war, 26
- Hooke, Robert: calculating machine and, 151; Leibniz and, 48; mathematics, 214
- Horb, J. H., Leibniz and, 45, 55
- Huet, Pierre-Daniel: on Cartesianism, 73–74; *Demonstratio Evangelica*, 72; Leibniz and, 35, 39, 191, 194, 218, 238; Leibniz and, in defence of religion, 76–82; relation of Leibniz to, 70–75; translation of Leibniz to (1673), 251–53
- Hugo, Ludolf, Leibniz and, 130
- humanities, Leibniz and Friedrich, 146–47
- Huygens, Christiaan: Leibniz and, 11, 47, 49–51, 191, 214, 226, 229–34, 238; Leibniz meeting, 34; Leibniz on Becher's process to, 182; proposing Leibniz to Académie, 117–18; recruitment of, 96
- Hypothesis physica nova* (Leibniz), 14, 48, 130, 213
- inventors, as projectors, 7–9
- iron processing, Crafft's, 169
- Islamic theology, engagement with, 26n14
- Israel, Menasseh Ben, Huet debating with, 76
- Jansenists, 55, 56, 60
- Jesuit order, 16, 17
- Jesuits, 47, 56
- Jesus Christ, 79
- Johann Friedrich, duke of Hanover: death of, 3, 139–40, 235; as employer to Leibniz, 2, 40, 121; Leibniz and, 11, 28, 45, 191; Leibniz and Colbert, 226; Leibniz and control of projects, 148–53; Leibniz and ideas for public good, 97n12; Leibniz as 'walking encyclopedia' at court of Hanover, 136–39; Leibniz confiding to, 58; Leibniz correspondence with, 122–24, 129–59; Leibniz's employment in court of, 2; Leibniz introduction to phosphorus, 171–72; Leibniz negotiating on cast iron process, 186–87; Leibniz on Arnauld, 60; Leibniz on Becher's process, 181–82; Leibniz on benefits, 238; Leibniz on Carcavy, 109;

- Johann Friedrich, duke of Hanover
(*continued*)
Leibniz on Crafft, 166; Leibniz reporting news to, 99; Leibniz settling in court of, 121; Leibniz's letter to, 154; parents of, 129; plans and public welfare, 141; steel production, 167; translation of Leibniz to (1679), 264–66
- Johann Georg II, elector of Saxony, Crafft and, 166
- Johann Georg III, elector of Saxony, accession of, 203
- Jones, Matthew L., on calculating machine, 4n11
- Journal des Sçavans* (journal), 6, 35, 41, 51, 191, 194, 222, 226
- Jungius, Joachim: library of, 134; Societas Ereunetica, 16
- jurisprudence, 49; philosophy and, 47
jurisprudentia rationalis, 13
- Justel, Henri: Leibniz and, 34, 191, 194, 197, 214, 220; on practicalities of life, 216; salon, 71; war and progress of *Ad Usum Delphini* series, 200
- Kahm, Johann Carl: Leibniz and, 130, 159; Leibniz's letters and, 130, 131; Leibniz's proposal to, 119
- Kempe, Michael, on 'Funny Thought', 89
- Kepler, Johannes, 18
- Kochanski, Adam, Leibniz on Becher to, 180
- Kornmann, medical physician, 222
- Kozebue, Jakob, duke's doctor, 151
- Kunckel, Johann, on phosphorus, 171
- Kunst- und Werkhaus*, Becher founding, 178
- Laboratorium Chymicum* (Becher), 171
- Laerke, Mogens, on Leibniz's relationship with Spinoza, 4n11
- Lambeck, Peter: as imperial librarian, 24, 179; and Leibniz on Carcavy, 109
- La nature et presage des Cometes* (Cherubim), 220
- Lantin, Jean-Baptiste, Leibniz meeting Foucher through, 64
- La Perpétuité de la Foi catholique touchant L'Eucharistie* (Arnauld and Nicole), 55
- Lasser, Hermann Andreas, Leibniz and, 13
- lead production, projectors, 168
- Lebrun, Charles-François, characterization of 'fiseurs de projets', 8–9
- Leibniz, Gottfried Wilhelm: Becher and, 175–85; Brosseau with, building the ducal library, 192–93; calculating machine, 108–18, 169; calculating machine and Ollivier, 196–97; Cartesian methodology, 212–13; Cartesian philosophy, 53–54; confession of greatest faults, 36–37; Conring and, 204–9; on copy of Abulfeda manuscript, 106–8; correspondence with Duke Johann Friedrich, 129–59; correspondence with Christian Philipp, 200–204; as court librarian, 131–34; Crafft and, 164–75; defence of applied science and technology, 21–22; description of himself, 1; determination to remain in Paris, 124; devotion to public good, 166–67, 207; double standards of, 185–89; elevating the population, 17–20; in employ of Duke Friedrich, 121; existence as projector, 9; Fer-rand and, 102–4; Foucher and, 62–67; Hansen and, 193–200; historical research and, 211–12; ideas for public good, 97n12, 97–98; instrumentalizing phosphorus, 225–35; inventions of, 7; learning from France for Germany, 125–26; learning in Paris, 45–52; on legal reform, 97–101; letters in German and French, 155; mathematical discoveries, 213–14; mathematics, 47–52; natural philosophy, 46–47; Oldenburg and, 201; Paris sojourn (1672–76), 2–3, 5–6, 10–12, 25–27, 40–44, 125–26; on political economy, 42–43; politics of scholarship, 12; projects and specialness of, in Germany, 139–48; as publicist and agent in Paris, 37–44; representation of, 10–11; Republic of Letters and, 3–7, 11–12; retracing philosophical progress, 100–101; rhetoric and rapport with Duke Friedrich, 153–59; role and activities in Republic of Letters, 69–75, 87, 132–34; roles and personae of, 3–4; scholarship of, 1–2, 3; scientific activity, 42; on search for potential employment, 120–25; secrecy and control of, 148–53;

- self-representation of, 10; setting self up as master informer, 218–24; sharing scientific and technical curiosities, 214–17; on societies, 18–20; status in Republic of Letters, 155; universal philosophical language, 143; as ‘walking encyclopedia’ at court of Hanover, 136–39; widening his sphere of influence, 134–36
- Leibniz to Carcavy (November 1671), translation of letter, 248–51
- Leibniz to Christian Habbeus (1673), translation of letter, 253–54
- Leibniz to Colbert (1679), translation of letter, 266–68
- Leibniz to Colbert (1682), translation of letter, 268–69
- Leibniz to Duke Johann Friedrich (1679), translation of letter, 264–66
- Leibniz to Pierre-Daniel Huet (1673), translation of letter, 251–53
- Leibniz to the Dauphin (1675), translation of letter, 254–58
- Leidenfrost, Friedrich Wilhelm, Leibniz and, 130
- Leopold (Emperor), 83, 99
- Leopold I, Austrian emperor, 16, 40, 83, 99–100, 177
- Lettres Provinciales* (Pascal), 102
- Leviathan and the Air-Pump* (Shapin and Schaffer), 90
- Leyser, Johann, theologian, 45
- L’histoire critique du Vieux Testament* (Simon), 78
- library: ducal, Leibniz and Brosseau building, 192–93; as ‘encyclopaedia’ and ‘inventory’, 131–34; Leibniz’s ideal, 132
- Löffler, Simon, on Arnauld’s indictment of Jesuit morality, 55
- Logique* (Arnauld), 55
- Logique* (Mariotte), 219
- Louis XIII, (King of France), 42
- Louis XIV (King of France), 22, 25, 60, 119, 135; Colbert as his finance minister, 95; Leibniz addressing, 85; Leibniz for, 234; Leibniz on patronage of, 86; Leibniz’s proposal, 29, 30; Melchior Friedrich von Schönborn and plan to, 38; model for patronage of learning, 224; Republic of Letters dedicated to, 84; rule of, 105
- Louvre, 33
- Lutheran doctrine of consubstantiation, 57
- ‘Mala Franciae’ (Leibniz), 44
- Malebranche, Nicolas: Arnauld and, 55, 61; Desgabets and, 63; Leibniz and, 191; Oratorian, 35
- Malebranche, Nicole, Oratorian, 35
- Mariotte, Edme: Douceur’s claim and, 187; Leibniz and, 48; philosopher, 191; physics and geometry, 215
- Mars Christianissimus* (Leibniz), 44
- Mersenne, Marin, Carcavy and, 109
- master informer, Leibniz setting self as, 218–24
- mathematics, Leibniz and, 47–52, 146, 147, 213–14
- Mazarin (Cardinal), 214
- Ménage, Gilles: historian, 45; Huet and, 70
- Mechanica sive de motu* (Wallis), 48
- Mecklenburg-Schwerin, Christian von (Duke), Leibniz’s letters to, 121–22, 241
- Medicean Stars, Galileo and, 157
- Meditationes de Cognitione, Veritate, et Ideis* (Leibniz), 234
- Memorandum on Trade* (Colbert), 95
- Mercury, 84
- Methodus Didactica* (Becher), 178
- Metternich, Lothar Friedrich von, denying Leibniz a position, 119–20
- microscopes, discovery, 215
- miracle, word, 30
- Mohr, Georg, Leibniz and, 34
- Montausier, duc de, 70; Leibniz’s letter, 100, 101
- More, Thomas, utopian models of, 15
- Morell, André, Leibniz and, 34, 38
- multiperspectivism, 86
- Nachlass, 5
- Naudé, Gabriel: *Advis pour dresser une bibliothèque*, 131; Huet and, 70
- Neuburg, Philipp Wilhelm von, candidacy of, 25
- New Discourse* (Conring), 206
- New Testament, Old Testament prophesy fulfillment in, 76
- Nicole, Pierre: Arnauld and, 55, 59; Leibniz and, 35
- Nijmegen peace conference, 135

- Nizolio, Mario, *Antibarbarus*, 24
Nouveau système (Leibniz), 67
Nouveaux éléments de géométrie (Arnauld), 55, 59
Nouvelle façon d'hydromètres (Foucher), 63
 Nouvelles de la République des Lettres, 233
Nova Methodus (Leibniz), 206
 'Nova Methodus Discendae Docendaeque Jurisprudentiae' (Leibniz), 13
Nova Methodus pro Maximis et Minimis (Leibniz), 242
 novelties, 28
Novus secundarum et ulterioris ordinis radicum in analyticis usus (Fermat), 109
- Ockham, 257
Odyssey (Homer), 83
 Oldenburg, Republic of Letters, 109
 Oldenburg, Henry; Huet and, 71–72; Leibniz and, 34, 51, 201; phosphorus and, 172; promoting scientific activity, 48–49; Republic of Letters and, 109
 Old Testament: authorship of, 77; prophecy fulfillment in New Testament, 76
 Ollivier, Leibniz's arithmetic machine and, 196–97
Opera posthuma (Spinoza), 185–86
 opportunities, 28–29
 Ordo Caritatis, 142
 Oriental Indian society, 17
 Orientalism, 237
 Oriental learning, Ferrand's proficiency in, 101–2
 Ottoman Empire, 41, 106, 206
 Ottoman threat, 105
 Oudard, René, Leibniz and, 35
 Ozanam, Jacques: on quadrature of circle and prime numbers, 215; self-taught geometer, 47
- Pacidius Philalethi* (Leibniz), 212
 Paderborn, Ferdinand von, 192
 Pallas Alexander, 261
 Papin, Denis: Leibniz meeting, 34; pressure cooker invention, 216
 Paracelsus, 18, 101, 257; Descartes and, 101
 Pardies, Ignace Gaston, mathematician, 59
 Paris: *honnête* sociability in, 90–91; Leibniz as publicist and agent in, 37–44; Leibniz encountering, 33–44; Leibniz's sojourn in (1672–76), 2–3, 5–6, 10–12, 25–27, 40–44, 125–26
Parisian honnête sociability, 90–91
 Parisino, Michaelae Baudrand, *Ferrarius Locupletatus*, 102
 Paris sojourn (1672–76), Leibniz's, 2–3, 5–6, 10–12
 Parmenides, 256
 Pascal, mathematical literature, 50, 54
 Pascal, Blaise: Leibniz on work of, 59; mathematical literature, 50, 54
 Pascaline, Pascal's calculator, 109
 Peace of Nijmegen, Philipp and, 203–4
 Peace of the Church, 56, 60
 Pell, John, mathematician, 48
 Pentateuch, Simon on Mosaic authorship of, 78
 Périer, Gilberte, Leibniz befriending, 34
 Périer, Louis, Leibniz befriending, 34
 perpetual light (*lumière perpétuelle*), phosphorus as, 172–73
 Perrault, Claude: 'Des sens extérieurs', 62n50; Leibniz and, 34; rejection of Cartesian mechanism, 62
Petit Traité des Agréments (le Chevalier de Mère), 194
Phèdre (Racine), 195
Phaedo (Plato), 65
 Philipp, Christian, 212; on Becher, 183–84; Leibniz and, 192, 219; Leibniz on Brand's claim, 188; Leibniz with, 200–204
 philosopher, rise of figure of, 9n34
 Philosopher's stone, 161, 249
 philosophy, Leibniz, 46–47
 phosphorus: discovery of, 226–27; instrumentalizing, 225–35; possible military applications, 230–31; production of, 10, 11
 phosphorus production, Crafft and Leibniz, 170–75
Physical Treatise (Mariotte), 214
 Placcius, Vincenz, Leibniz and, 192
 plague outbreak, Austria, 168
 Plato, 54, 256, 258; political thought, 17
 Plato's Academy, philosophy of, 63
 Pliny, 216, 253
 political control, Leibniz's interest in, 92–93
Politischer Diskurs (Becher), 183

- Pomponne, Arnauld de, minister, 31
 Pomponne, Simon Arnauld de, Leibniz
 introduction to, 37
 'Portrait of a Prince', Leibniz's, 100
 Postel, Guillaume, Orientalist scholar, 105
 Prestet, Jean, mathematics, 47
 Prince Casimir of Hanau, 177
 Prince de Condé, Leibniz and, 35
 project (*projet*): Leibniz's, 139–48; term, 7
 'Projecting Age', Defoe on, 8
 project maker, problem of, 9n36
 projector(s): ambiguity of, 9; idea of, 8–9;
 imaginary calculations of, 8–9n33;
 inventors or entrepreneurs as, 7–9;
 Leibniz's existence as, 9, 92; Leibniz's
 reputation as, 148; Leibniz's secrecy
 and control, 148–53; range of ventures,
 161–64
projeter, verb, 9
 Protestantism, 239
Protogaea sive de prima facie telluris
 (Leibniz), 235
Psychosophie (Becher), 178, 183
 public good, 28, 28n23; Leibniz's devotion
 to, 166–67, 207
 Pufendorf, Esaias, representative of Swed-
 ish crown, 201
 Pufendorf, Samuel, Philipp and, 201
 Pyrrhonism, 63
 Pythagoras, 84, 256, 260

 Querelle des anciens et des modernes,
 11, 237

 Rabel, Johann, Philipp and, 201
 Ramus, Petrus, on practical mathematics,
 15
Ratio corporis juris reconcinnandi (Leib-
 niz and Lasser), 14, 206
Ratio Corporis Juris Reconcinnandi
 (Leibniz), 206
 realism, 238
 reality, speculating, 10
 Real Presence, doctrine of, 56, 57
 Regnaud, François, numerical species, 48
 Regnaud, François, Leibniz and, 198
Reichshofsrat post, 168, 179, 180
Relatio Codicis Juris Gentium Diplo-
 matici (Leibniz), 70
 'Relation de l'état présent de la Répub-
 lique des Lettres' (Leibniz): draft A,
 84–85, 258–60; draft B, 84, 260; draft
 C, 84, 260; translation of, 258–61
Relations de Voyages (Thévenot), 106
 religion, scholarship and history in
 defence of, 76–82
 Republic of Letters, 33; challenge of 'old',
 83; Colbert's information system,
 96n6; Colbert's strategy concerning,
 96–98; Conring and, 205;; Huygens
 and, 49; key players, 109; Leibniz and,
 3–7, 11–12; Leibniz on, 218, 221; Leib-
 niz's position in, 137; Leibniz's concep-
 tion of, 87, 132–34; Leibniz's role and
 activities in, 69–75; Leibniz's status in,
 155; translation of account of present
 state of, 258–61; as transnational com-
 munity of scholars, 5. *See also* 'Relation
 de l'état présent de la République des
 Lettres'
 respublica literaria, 23
 Rheinburg, Wenzel von, gold-making
 scheme, 138
 Roannez, Artus III Gouffier, duc de,
 Leibniz and, 34
 Roberval, Gilles de: Académie and, 117,
 118; Carcavy and, 109; death of, 117
 Roehmer, Ole, Leibniz and, 34, 47
 Rohault, Jacques, lectures on physics, 63
 Rolamb, Anke, Leibniz and, 35
 Roman Caesars, 204
 Roman Church, 55
 Royal Academy of Sciences, 34, 36
 Royal Observatory, 116
 Royal Society, London, 15, 19, 20, 34, 39,
 48, 49, 72, 110, 114, 141

 St Vincent, Grégoire de, mathematical
 literature, 50
 Saring, Hans, describing Crafft, 166
 Sauveur, Jacques, analysis and geometry, 48
 Scaliger, Joseph, critic of Huet, 73
 scepticism, 53, 67, 217; Academic, 63, 65;
 Justel's, 216; Leibniz's, of Becher, 182
 Schaffer, Simon, on scientific discourse, 90
 Schickard, Wilhelm: Thévenot and, 106;
 transcript of, 107, 108
 Schönborn, Johann Philipp von: elector
 of Holy Roman Empire, 13; Leibniz's
 patron, 14, 18, 24, 33
 Schönborn, Melchior Friedrich von, Leib-
 niz's patron, 71, 110

- Schuller, Georg Hermann: lead production, 168; Leibniz and, 191, 221; preparation of Spinoza's *Ethica* and *Opera Posthuma*, 185–86
- science, evolution of, 3
- scientific curiosities, 214–17
- Scotus, 257
- scriptures, scholarship and historical defence, 76–82
- Seckendorff, Ludwig Viet von, Huet and, 71
- Shapin, Steven, on scientific discourse, 90
- silk production: Crafft, 169; Henry IV's introduction of, 184
- Simon, Richard: on authorship of Penta-teuch, 77–78; *Criticism of the Bible*, 219
- sincerity, Leibniz's, 145
- Siver, Heinrich, disciple of Jungius, 134
- Sluse, mathematical literature, 50
- smelting furnaces, Crafft's, 168
- Smith, Pamela: on Becher and Leibniz, 175; on 'liminal individual', 9
- social order, rational, 93
- 'Societät und Wirtschafft' (Leibniz), 21
- Societas confessionum conciliatrix* (Leibniz), 16
- Societas Ereunetica*, Jungius as founder of, 16
- Societas Eruditorum Germaniae*, 16
- Societas Philadelphica* (Leibniz), 16, 178
- Societas Theophilorum*, 142
- 'Society and Economy' (Societät und Wirtschafft) (1671), translation, 245–47
- Socrates, 256
- Spanish Netherlands, 205
- Spannheim, Ezechiel, on manuscripts, 79
- speculating, 10
- Spinoza, Baruch: *Ethica*, 185–86; high-profile thinker, 57; *Opera Posthuma*, 185–86; posthumous works, 219; Schuller's confidant, 185–86; *Tractatus theologico-politicus*, 77, 78
- Spitzel, Gottlieb, Orientalist, 77
- steel production, Crafft and Leibniz, 167
- Steno, Nicolas (Niels Stensen): Chapelain and, 98; Leibniz and, 191
- Stensen, Neils, Leibniz and, 191
- Subterranean Physica* (Becher), 179
- Suchay, Jean-Baptiste, philologist, 72
- technical curiosities, 214–17
- Théophraste Renaudot's Bureau d'Adresse, 140
- Thévenot, Melchisédech: on copy of Abulfeda, 107; Leibniz and, 35; on Orientalist 'culture of curiosity', 105; *Relations de Voyages*, 106
- Theaetetus* (Plato), 65
- 'Theatre of Nature', Becher's, 178
- Theoria cum Praxi* (Leibniz), 165
- Theoria motus abstracti* (Leibniz), 14, 48, 51, 57, 98, 130
- Thirty Years' War, 15, 26, 170, 176, 177, 205, 207
- Thomasius, Jakob, Becher and, 178
- Thoynard, Nicolas, Leibniz and, 35
- Torricelli: Carcavy and, 109; mathematical literature, 50
- Tractatus theologico-politicus* (Spinoza), 77, 78
- Traité de l'origine des romans* (Huet), 71
- Traité des plus belles bibliothèques* (Jacob), 131
- transubstantiation: Catholic doctrine of, 56, 57; Roman Church and, 55; Trentine doctrine of, 56
- Treatise on Colours* (Mariotte), 219
- Treatise on Plants* (Mariotte), 214–15
- Treatise on the Perpetuity of the Faith* (Arnauld), 58
- Trentine doctrine of transubstantiation, 56
- Trifolium Hollandicum* (Becher), 182
- Trinity, mystery of, 24
- Triple Alliance, 25, 205 Holland, England, and Sweden, 25
- Truchet, Jacques, on triumph of theatricality, 90
- truth, concept of, 10
- Tschirnhaus, Ehrenfried Walther von: admission to Académie, 234; Leibniz and, 34, 139, 212, 214, 219; Leibniz on Crafft, 166; mediation of, 185
- Uffenbach, Zacharias von, visiting Leibniz, 239
- universal philosophical language, Leibniz's plan, 143
- University of Altdorf, 13
- University of Helmstedt, 206, 211
- University of Paris, 5

- University of Rinteln, 191, 222
- University of Tübingen, 107

- Vagetius, Johann, disciple of Jungius, 134
- Valens, Vettius, astrologer, 71
- van Helmont, Descartes and, 101
- Vansleben, Johann Michael, *Conspectus operum Aethiopicum*, 107
- Verjus, Louis de: Brosseau and, 192; diplomat, 192
- Vierort, Jakob, alchemist, 161
- Virgil, 261
- Voltaire, Age of Louis XIV, 6
- von Hessen-Rheinfels, Landgrave Ernst, intermediary of, 58, 61
- von Holten, Albert, Leibniz's letter to, 114
- von Hornigk, Philipp Wilhelm, Crafft on, 168
- von Koenigsmarck (Count), 193

- von Rheita, Capuchin Anton, telescope, 220
- Vossius, Isaac, Chapelain and, 98

- Wagner, Gabriel, Huet and, 71
- Wallis: mathematical literature, 50; Republic of Letters, 109
- Wallis, John: Leibniz and, 48, 49; professor of geometry, 48, 71
- Walter, Christian, Leibniz and, 221
- Walter, Christian Albrecht, commenting on war, 200
- Weigel, Erhard, Philipp and, 201
- West India Company, 177
- Wicquefort, Abraham de, library of, 133
- Witzendorff, Hieronymus von, Leibniz and, 130

- Zunner, Johann David, bookseller, 133