**TRANSLATOR'S PREFACE** . . . . . vii
**NOTE ON THE TRANSLATION** . . . . . ix
**ACKNOWLEDGMENTS** . . . . . xiii

# Philosophical Essay on Probabilities

On probability . . . . . 2
General principles of the probability calculus . . . . . 6
On expectation . . . . . 11
On analytical methods in the probability calculus . . . . . 14

**Applications of the probability calculus** . . . . . 33

On games of chance . . . . . 33
On unknown inequalities that may exist between supposedly equal chances . . . . . 34
On laws of probability resulting from the indefinite repetition of events . . . . . 36
Application of the probability calculus to natural philosophy . . . . . 43
Application of the probability calculus to the moral sciences . . . . . 61
On the means of the results of a large number of observations . . . . . 62
On the probability of testimony . . . . . 65
On elections and decisions of assemblies . . . . . 74
On the probability of judicial decisions . . . . . 77
On tables of mortality and the mean duration of life, marriages and associations in general . . . . . 81
On the benefits of institutions that depend on the probability of events . . . . . 86
On illusions in the estimation of probabilities . . . . . 91

On various approaches to certainty . . . . . 112
Historical note on the probability calculus . . . . . 117

**NOTES** . . . . . 125

**APPENDIX: EDITIONS OF THE *ESSAI*** . . . . . 225

**BIBLIOGRAPHY** . . . . . 227

**GLOSSARY** . . . . . 253