

1. Record Nr.	UNINA9910254631803321
Autore	Volchenkov Dimitri
Titolo	Survival under Uncertainty : An Introduction to Probability Models of Social Structure and Evolution / / by Dimitri Volchenkov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-39421-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIV, 238 p. 55 illus., 44 illus. in color.)
Collana	Understanding Complex Systems, , 1860-0832
Disciplina	519.2
Soggetti	Sociophysics Econophysics Social structure Equality Philosophy and social sciences Science—Social aspects Computational complexity Data-driven Science, Modeling and Theory Building Social Structure, Social Inequality Philosophy of the Social Sciences Societal Aspects of Physics, Outreach and Education Complexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Subsistence in Uncertainty -- Time and Institutions -- Inequality and the Laws of supply and demand -- Decision making under uncertainty -- Capitalization of uncertainty: stochastic theory of advantage -- Doubly stochastic branching process as a model of natural selection -- Human history as a stochastic process -- The stochastic model of social conformity and political instability -- Random walks over political regimes : History seems to never end -- Urbanization failure and a fission chain reaction of states.
Sommario/riassunto	This book introduces and studies a number of stochastic models of subsistence, communication, social evolution and political transition

that will allow the reader to grasp the role of uncertainty as a fundamental property of our irreversible world. At the same time, it aims to bring about a more interdisciplinary and quantitative approach across very diverse fields of research in the humanities and social sciences. Through the examples treated in this work – including anthropology, demography, migration, geopolitics, management, and bioecology, among other things – evidence is gathered to show that volatile environments may change the rules of the evolutionary selection and dynamics of any social system, creating a situation of adaptive uncertainty, in particular, whenever the rate of change of the environment exceeds the rate of adaptation. Last but not least, it is hoped that this book will contribute to the understanding that inherent randomness can also be a great opportunity – for social systems and individuals alike – to help face the challenge of “survival under uncertainty”.

2. Record Nr.	UNINA9910640399803321
Autore	Goss W. M (William Miller)
Titolo	Joe Pawsey and the Founding of Australian Radio Astronomy : Early Discoveries, from the Sun to the Cosmos / / by W. M. Goss, Claire Hooker, Ronald D. Ekers
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
Edizione	[1st ed. 2023.]
Descrizione fisica	1 electronic resource (I, 815 pages) : illustrations
Collana	Historical & Cultural Astronomy, , 2509-3118
Classificazione	SCI004000SCI055000TEC008010TEC022000
Altri autori (Persone)	HookerClaire EkersR. D (Ron D.)
Disciplina	509
Soggetti	Physics - History Astronomy Electronic circuits Measurement Measuring instruments History of Physics and Astronomy Astronomy, Observations and Techniques Electronic Circuits and Systems Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Foreword -- Preface -- Acknowledgements -- Childhood -- Becoming a Scientist -- WWII 1939-1945 -- Hot Corona -- Quiet Leadership -- Towards a Bigger Science -- The Development of Understanding -- Death and Legacy -- Appendix.
Sommario/riassunto	<p>This open access book is a biography of Joseph L. Pawsey. It examines not only his life but the birth and growth of the field of radio astronomy and the state of science itself in twentieth century Australia. The book explains how an isolated continent with limited resources grew to be one of the leaders in the study of radio astronomy and the design of instruments to do so. Pawsey made a name for himself in the international astronomy community within a decade after WWII and coined the term radio astronomy. His most valuable talent was his ability to recruit and support bright young scientists who became the technical and methodological innovators of the era, building new telescopes from the Mills Cross and Chris (Christiansen) Cross to the Parkes radio telescope. The development of aperture synthesis and the controversy surrounding the cosmological interpretation of the first major survey which resulted in the Sydney research group's disagreements with Nobel laureate Martin Ryle play major roles in this story. This book also shows the connections among prominent astronomers like Oort, Minkowski, Baade, Struve, famous scientists in the UK such as J.A. Ratcliffe, Edward Appleton and Henry Tizard, and the engineers and physicists in Australia who helped develop the field of radio astronomy. Pawsey was appointed the second Director of the National Radio Astronomy Observatory (Green Bank, West Virginia) in October 1961; he died in Sydney at the age of 54 in late November 1962. Upper level students, scientists and historians will find the information, much of it from primary sources, relevant to any study of Joseph L. Pawsey or radio astronomy. This is an open access book.</p>