

1. Record Nr.	UNINA9910703878603321
Autore	Green Lawrence L.
Titolo	Development and execution of the RUNSAFE runway safety Bayesian Belief Network model // Lawrence L. Green
Pubbl/distr/stampa	Hampton, Virginia : , : National Aeronautics and Space Administration, Langley Research Center, , May 2015
Descrizione fisica	1 online resource (vii, 63 pages) : color illustrations
Collana	NASA/TM ; ; 2015-218705
Soggetti	Aircraft safety Runways Flight safety Runway incursions Takeoff
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed Aug. 5, 2015). "May 2015."
Nota di bibliografia	Includes bibliographical references (pages 59-63).

2. Record Nr.	UNINA9910299431303321
Autore	Galiev Sh. U
Titolo	Darwin, Geodynamics and Extreme Waves // by Sh. U. Galiev
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-16994-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (362 p.)
Disciplina	526.1 55 550 551 551.46
Soggetti	Oceanography Geophysics Natural disasters Physical geography Geophysics/Geodesy Natural Hazards Earth System Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Prologue: a few notes about Charles Darwin, his research and the contents of the book -- 1. Introduction -- 2. Extracts from Darwin's publications, and his basic geophysical ideas -- 3. Darwin's reports on catastrophic natural phenomena and modern science: topographic effect and local circumstances -- 4. Darwin's reports on catastrophic natural phenomena and modern science: seaquake-induced waves, atomization and cavitation -- 5. Extreme wave/ship interaction -- 6. Modelling of extreme waves in natural resonators: from gravity waves to the origin of the Universe -- 7. Final comments on Charles Darwin's geophysical observations.
Sommario/riassunto	This book examines the reasons behind the resonant amplification of seismic and ocean waves that have the capacity to destroy cities and

ocean-going vessels. Using Charles Darwin's important geophysical research as a starting point, it provides insights into the interaction between earthquakes with volcanoes, seaquake, and tsunami formation. In particular, the author details the observations that Darwin made on a powerful earthquake that occurred in Chile in 1835, noting how the famous naturalist and geologist used the concept of earthquake-induced vertical shock to explain the event's devastating impact. The book then goes on to show how Darwin's concept relates to the catastrophic results of the shallow quakes that recently destroyed Port-au-Prince (Haiti, 2010) and severely damaged Christchurch (New Zealand, 2011). In addition, the author asks whether Darwin's ideas are endorsed by the discoveries of modern science and whether the results of destructive earthquakes can be modeled using strongly nonlinear wave equations. Coverage also proposes that similar equations can be used to simulate the dynamics of many objects on the surface of the Earth, and to model the origin of the Universe, dark matter, and dark energy as strongly nonlinear wave phenomena. The book will appeal to students as well as researchers and engineers in geophysics, seismology, nonlinear wave studies, cosmology, physical oceanography, and ocean and coastal engineering. It will also be of use to those who are interested in the phenomena of natural catastrophes as well as those who want to learn more about the life and work of Charles Darwin.
