Record Nr. UNINA9910130935103321 The Stromboli volcano [[electronic resource]]: an integrated study of **Titolo** the 2002-2003 eruption / / Sonia Calvari ... [et al.], editors Pubbl/distr/stampa Washington, D.C., : American Geophysical Union, c2008 **ISBN** 1-118-66634-8 1-118-67244-5 Descrizione fisica 1 online resource (411 p.) Collana Geophysical Monograph Series;; 182 Altri autori (Persone) CalvariSonia <1962-> Disciplina 551.210945 551.210945/811 Soggetti Volcanism - Italy - Stromboli Stromboli (Italy) Eruption, 2002 Stromboli (Italy) Eruption, 2003 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 at the end of each chapters and index. Title Page: Contents; Preface: The Stromboli Volcano: An Integrated Nota di contenuto Study of the 2002-2003 Eruption-Introduction; Section I: The Volcanic System of Stromboli; Geological-Structural Framework of Stromboli Volcano, Past Collapses, and the Possible Influence on the Events of the 2002-2003; Volcanology and Magma Geochemistry of the Present-Day Activity: Constraints on the Feeding System: Dynamics of Strombolian Activity: Fluid Geochemistry of Stromboli; Crater Gas Emissions and the Magma Feeding System of Stromboli Volcano; Upper Conduit Structure and Explosion Dynamics at Stromboli Section II: Eruption OnsetVolcanic and Seismic Activity at Stromboli Preceding the 2002-2003 Flank Eruption; The Eruptive Activity of 28 and 29 December 2002; Geochemical Prediction of the 2002-2003 Stromboli Eruption From Variations in C02 and Rn Emissions and in Helium and Carbon Isotopes; Section III: Landslides, Tsunami, and the

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Sommario/riassunto

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 182. This book presents a study of the ""eruptive crisis"" that took place at the Stromboli volcano from December 2002 to July 2003. It features an integrative approach to the monitoring of eruptive activity, including lava flow output, explosive activity, flank instability, submarine and subaerial landslides, tsunami, paroxysmal explosive events, and mitigation strategies. The book comes with a DVD with spectacular photos and video of The landslide and the tsunami that hit t