Record Nr. UNISA996204915603316 Autore Khilyuk Leonid F **Titolo** Probability in petroleum and environmental engineering / / Leonid F. Khilyuk, George V. Chilingar, Herman H. Rieke Pubbl/distr/stampa Houston, Texas:,: Gulf Pub. Co.,, [2005] ©2005 **ISBN** 0-12-799970-1 1-60119-125-1 Descrizione fisica 1 online resource (292 p.) Altri autori (Persone) RiekeHerman H Disciplina 665.501 665.5015192 Soggetti Petroleum engineering - Statistical methods Environmental engineering - Statistical methods **Probabilities** Reliability (Engineering) - Statistical methods 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 indexes. Nota di contenuto Front Cover: Probability in Petroleum and Environmental Engineering: Copyright Page: Dedication: Table of Contents: PREFACE: LIST OF NOTATIONS; CHAPTER 1. INTRODUCTION; THE APPROACH; OVERVIEW; INSTRUCTIONS; CHAPTER 2. EXPERIMENTS AND EVENTS; PRIMARY NOTIONS; ALGEBRA OF EVENTS; RELATION OF IMPLICATION; MAIN OPERATIONS WITH EVENTS: MAIN PROPERTIES OF THE OPERATIONS WITH EVENTS; THEOREM ON THE DECOMPOSITION OF AN EVENT INTO A COMPLETE SET OF EVENTS; INTERPRETATION OF ENVIRONMENTAL PHENOMENA AS EVENTS OF EXPERIMENTS; QUESTIONS AND EXERCISES: CHAPTER 3. SPACE OF ELEMENTARY EVENTS PRELIMINARY REMARKS COMPOSITION OF THE SPACE OF ELEMENTARY EVENTS: COMPOSITION OF THE SPACE OF ELEMENTARY EVENTS FOR AIR-QUALITY MONITORING AND FORECASTING; CHARACTERIZATION OF THE EUTROPHICATION OF A BAY WATER; QUESTIONS AND

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Sommario/riassunto

Written by three of the world's most renowned petroleum and environmental engineers, Probability in Petroleumand Environmental Engineering is the first book to offer the practicing engineer and engineering student newcutting-edge techniques for prediction and forecasting in petroleum engineering and environmental management. The authors combine a rigorous, yet easy-to-understand, approach to probability and how it is applied topetroleum and environmental engineering to solve multiple problems that engineers or geologists face every day.

MOMENTS OF RANDOM VARIABLES OF A HIGHER ORDER