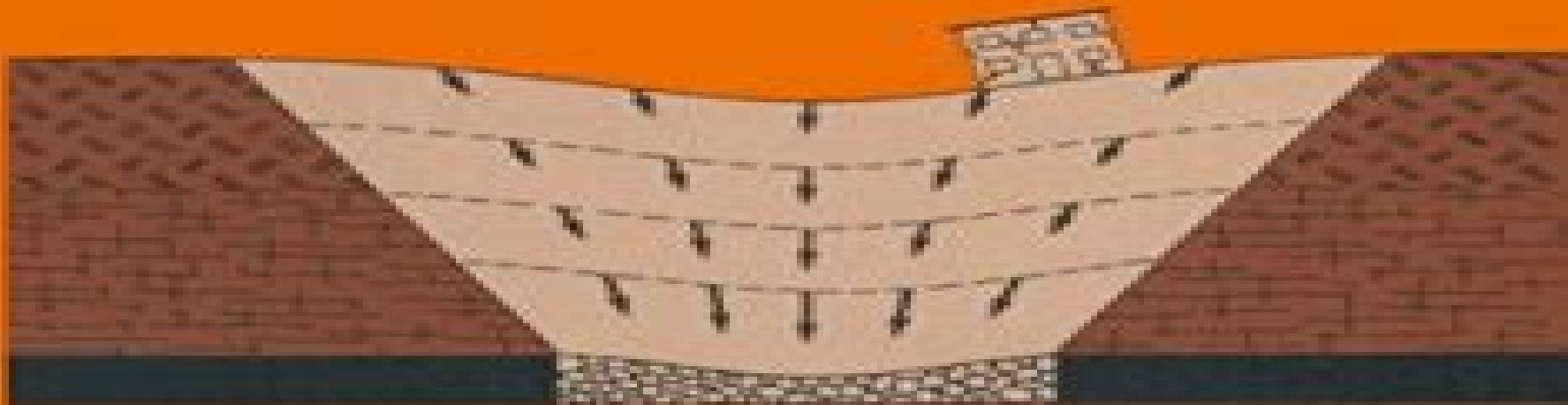


Helmut Kratzsch

# Mining Subsidence Engineering



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# Mining Subsidence Engineering

**Christian Drosten**



## **Mining Subsidence Engineering:**

**Surface Subsidence Engineering** Syd Peng, 2020-09-01 Underground coal mining disturbs both the overburden strata and the immediate floor strata. The subject of surface subsidence deals with the issues associated with the movement of overburden strata which are the layers from the seam to the surface where structures and water resources important to human activities are located. Surface Subsidence Engineering provides comprehensive coverage of the major issues associated with surface subsidence. The chapters are written by experts on surface subsidence in the three leading coal producing and consuming countries in the world: Australia, China, and the United States. They discuss general features and terminologies, subsidence prediction, subsidence measurement techniques, subsidence impact on water bodies, subsidence damage mitigation and control, and subsidence on abandoned coal mines. In addition, the final chapter addresses some of the unique features of surface subsidence found in Australian coal mines. The book provides information on coal seams ranging from flat to gently inclined to steep to ultra steep seams. Written for mining engineers, geotechnical engineers, and students of mining engineering, this book covers both theories and practices of surface subsidence. Unlike previous publications, it also deals with the subsidence impact on surface and groundwater bodies, crucial resources that are often neglected by subsidence researchers.

**Mining Subsidence Engineering** H. Kratzsch, 2012-12-06 This book originally appeared in German in 1974 under the title *Bergschadenkunde* (mining subsidence engineering) and then in Russian in 1978 published by Nedra of Moscow. When the German edition was almost out of print, Springer Verlag decided to bring out a new edition this time in English. For this English version, the text has been thoroughly revised, enlarged, and supplemented by over 100 new figures. The book deals with the current state of international knowledge on strata and ground movement over mine workings, with its damaging effects on mine shafts and the land surface, and with measures for regulating mining damage in law and reducing it in practice. Discussion begins with the mine excavation underground, the cause, and ends with the damage to surface structure, the effect. Methods of roof control, including the subject of rock bursts, are not discussed since that is a field concerned more with the safety of underground workings than with minimizing damage at the surface. Of the 500 literature references in the German edition, only the more important for an international readership have been retained, but no value judgement on the many publications not mentioned should be read into this. The book is principally intended as a working aid for the mine surveyor, the mining engineer, the architect, and the civil engineer. For the student and the post graduate researcher, it offers a summary and guide to this whole field of knowledge.

**Mining Subsidence Engineering** Helmut Kratzsch, 1983 This book originally appeared in German in 1974 under the title *Bergschadenkunde* (mining subsidence engineering) and then in Russian in 1978 published by Nedra of Moscow. When the German edition was almost out of print, Springer Verlag decided to bring out a new edition this time in English. For this English version, the text has been thoroughly revised, enlarged, and supplemented by over 100 new figures. The book deals with the current state of

international knowledge on strata and ground movement over mine workings with its damaging effects on mine shafts and the land surface and *Mining Subsidence Engineering* H Kratzsch, R F S Fleming, 1983-05-01 **Some Engineering Geologic Factors Controlling Coal Mine Subsidence in Utah and Colorado** C. Richard Dunrud, Geological Survey (U.S.), 1976 A discussion of the processes of subsidence and their effects on mine safety coal resource management and the environment in two geologic settings **Surface Subsidence Engineering** Syd S. Peng, 1992 **Mine Induced Subsidence** Hema J. Siriwardane, 1988 Proceedings of a symposium at the ASCE National Convention held in Nashville Tennessee May 11 1988 Sponsored by the Geotechnical Engineering Division of ASCE This Geotechnical Special Publication contains 11 papers offering a collection of case histories of the control and effects of mine induced subsidence on engineered structures a growing concern of the U S coal industry These papers review structural damage and reconstruction in areas of underground coal mining subsidence effects and damage to highways and other transportation facilities and subsidence causes and effects over abandoned mine lands In addition the analysis of subsidence stabilization techniques control by grouting and abatement projects are presented Prediction and Monitoring of Subsidence Hazards Above Coal Mines (Presidence), 2012 Mining subsidence engineering is one of the most important topics in relation to coal mining Although its occurrence prediction and control are well known this project will apply various innovative techniques to an old problem photogrammetry InSAR GPS seismic tools SFS Geology is a major factor in surface subsidence Empirical predictions are inaccurate where experience is lacking and geology unusual Geomechanical subsidence modelling can account for geology but requires anisotropic solutions to reproduce subsidence profiles Four items have been developed in relation to the prediction of subsidence caused by underground infrastructures two in relation to shafts telemetry and instrumentation for fill stability and the laser scanner techniques for surveys another in relation to a survey methodology using numerical modelling for infrastructure roadway and the last one in relation to the effect of mine water on concrete and other materials A 4D database called GeoMond DB has been developed to manage subsidence hazards on the surface working with data from Germany Poland and Spain A methodology based on geomechanical models to establish a prevision of surface and subsidence was carried out and validated Specially the consistency of FLAC 3D was checked to evaluate subsidence and the tensile strain on the surface In conclusion the techniques employed in this research represent a significant advance on the current situation in forecasting and control of subsidence Therefore although some of the investigated techniques must still be refined it can be said that the results of this research project will have a positive effect in the monitoring of the subsidence in the coal basins of the EU and some outcomes such as the technique of monitoring the movements of the ground with a GPS and vibrating sensors could be exported outside the EU **Advances in Coal Mine Ground Control** Syd S. Peng, 2017-05-25 *Advances in Coal Mine Ground Control* is a comprehensive text covering all recent advances in coal mine ground control the most advanced subsystem of the rapidly advancing coal mining systems This complete resource is written

by Professor Syd Peng who alongside leading experts from the world's major coal producing countries has contributed extensively to the understanding of subsidence from underground coal mining longwall operations and ground control in underground mines Syd and the team of contributors bring together key advances from the past decade into one comprehensive resource that is accessible to all those studying researching and working in the mining industry This book is an essential text for undergraduate and graduate students of mining engineering and related programs and a must have reference for mining civil and geotechnical engineers Written and edited by the world's leading experts on ground control in coal mining Covers all aspects of ground control practices in coal mines Focuses on advances over the past decade equipping readers with the most up to date knowledge regarding current research and practices in the field Engineering and Mining Journal ,1905 **Geomechanics and Water Engineering in Environmental Management** R.N. Chowdhury,2017-11-22 Divided into four parts this work presents integrated studies and regional and case studies and covers environmental constraints and effects and the behaviour of earth masses **Engineering in Rock Masses** F G Bell,2013-10-22 Engineering in Rock Masses is a 26 chapter text that deals with the behavior investigation and construction of rock masses The first chapters review the properties behavior classification and occurrence of groundwater in rock masses The subsequent chapters discuss the stress analysis exploration laboratory testing geophysical methods and instrumentation in these materials These topics are followed by discussions of slope stability rockfall problems settlement and bearing capacity subsidence and seismic movements of rocks and rock masses This work also evaluates the role of pumping system ground freezing grouting rock anchors drilling blasting and open excavation The remaining chapters look into the rock masses tunneling underground chambers shafts socketed foundations and retaining structures This book will be of great value to practicing civil and mining engineers engineering geologists and researchers **Engineering and Mining Journal-press** ,1925 **Chemical Engineering and Mining Review** ,1927 **The Mining Engineer** Institution of Mining Engineers (Great Britain),1919 **The Mining Engineer** ,1906 *Subsidence Information for Underground Mines-literature Assessment and Annotated Bibliography* Alan J. Fejes,1985 Geological Survey Circular , **Codes for the Identification of Aquifer Names and Geologic Units in the United States and the Caribbean Outlying Areas** Geological Survey (U.S.),1985 *The Engineering Index* ,1924

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