

## Article

# Dust and Noise Environmental Impact Assessment and Control in Serbian Mining Practice

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**Abstract:** This paper presents an approach to dust and noise environmental impact assessment and control in Serbian mine planning theory and practice. Mine planning defines the model of mining operations, production and processing rates, and ore excavation and dumping scheduling, including spatial positioning for all these activities. The planning process then needs to assess the impact of these mining activities on environmental quality. This task can be successfully completed with contemporary models for assessment of suspended particles dispersion and noise propagation. In addition to that, this approach enables verification of the efficiency of suggested protection measures for reduction or elimination of identified impact. A case study of dust and noise management at the Bor copper mine is presented, including the analysis of the efficiency of planned protection measures from dust and noise, within long-term mine planning at the Veliki Krivelj and Cerovo open pits of the Bor copper mine.

**Keywords:** dust and noise impact assessment and control; air dispersion modeling; AERMOD; noise mapping; SoundPLAN; mine planning

## 1. Introduction

Adapting the environment to the needs of the social community has consequences that are often unexpected, due to delicate equilibrium of all ecological components. Technogenic impact within the ecosystem can generate a feedback loop to the initiators, causing new conditions and unfavorable effects to the environment and humans. Surface mining and mineral processing, with their salient feature, can pose a threat to the environmental quality. Therefore, activities such as exploration, planning, surface extraction, crushing, milling, flotation, and waste dumping, might cause significant problems for environment protection [1].

The most important parameters for air quality within the area of active surface mines are total suspended particles (TSP) and particles with an aerodynamic diameter smaller than  $10\ \mu\text{m}$  (PM<sub>10</sub>) [2–4]. Dispersion of (airborn) dust is related to all unit operations of surface mining systems [3–6]. It has been established that air dispersion of TSP and PM<sub>10</sub> relates to meteorological conditions, besides the technological ones [7–10]. The highest dust concentrations were measured within the area of surface mines, gradually decreasing with distance [9].

Holmes and Morawska [11] analyzed various available dust particles dispersion models, including the Box model, Gaussian plume model, Lagrange-Euler model, and CFD (Computational Fluid Dynamics) model. They concluded that the major shortcoming of particles dispersion modeling was the lack of validation studies, comparing estimated and actual values. Chaulya et al. [12] compared FDM (Fugitive Dust Model) and PAL2 model (Point, Area, and Line sources model) with experimental data during the winter season in the region of a coal mine in India. The results were a correlation coefficient of 0.66 for PAL2 model and 0.75 for FDM. Jaiprakash et al. [13] used AERMOD model and compared

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## **Noise And Environmental Impact Report** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Noise And Environmental Impact Report**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web rumus bejana berhubungan  $1 \text{ p s h } 2 \text{ p } \rho \text{ g h } 3 \text{ p } 1 \text{ p } 2 \text{ } 4 \text{ p } 1 \text{ g h } 1 \text{ p } 2 \text{ g h } 2$  keterangan p tekanan hidrostatik n  $\text{m}^2$  atau  $\text{dn cm}^2$  s berat jenis zat cair n  $\text{m}^2$  atau  $\text{dn cm}^2$  h jarak dari dasar menuju permukaan zat cair cm atau m  $\rho$  massa jenis zat cair  $\text{kg m}^3$  atau  $\text{g cm}^3$  g percepatan gravitasi bumi n  $\text{kg}$

*fisika kelas 8 tekanan hidrostatik rumus penjelasan* - Dec 07 2022

web aug 12 2019 betul seperti halnya penyelam tadi tekanan hidrostatik yang paling besar terdapat di keran paling bawah keran c jelas aja perbandingan jaraknya aja 3 kali lipat dari keran a maka karena jenis airnya sama tekanan hidrostatiknya akan 3 kali lipat lebih besar dibanding yang keran a

*pengertian rumus dan bunyi hukum bejana berhubungan* - Apr 11 2023

web jan 3 2022 rumus hukum bejana berhubungan berdasarkan pengertian tekanan hidrostatik maka tekanan yang dilakukan zat cair yang sejenis pada kedalaman yang sama adalah sama besar dengan menerapkan pengertian tekanan hidrostatik dan membuat bidang batas antara zat cair yang berbeda jenis diperoleh  $p_1 = p_2$  atau  $\rho_1 h_1 = \rho_2 h_2$

**rumus tekanan hidrostatik tekanan pada zat cair dan bejana berhubungan** - Feb 26 2022

web 14 agustus 2023 oleh berpendidikan pada pembahasan kali ini akan menjelaskan tentang tekanan hidrostatik tekanan

pada zat cair bejana berhubungan rumus tekanan hidrostatika tekanan dalam zat cair gaya hidrostatika tekanan fluida percobaan tekanan hidrostatika tergantung pada statika fluida bejana berhubungan

bejana berhubungan massa jenis zat cair fisika sma - Mar 10 2023

web rumus dan cara mudah mencari massa jenis pada zat cair jika diketahui tinggi zat nya pada bejana berhubungan fisika sma show more show more almost yours 2