



Ebrahim Elahi Zeyni

Professor

Faculty : Engineering

Departments : Mining Engineering

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Education

- ✓ MS, Mining Engineering- Rock Mechanics, Shahrood University OF Technology - 2003
- ✓ PhD, Mining Engineering- Rock Mechanics, Shahrood University OF Technology - 2020
- ✓ PhD, Mining Engineering- Rock Mechanics, Shahrood University OF Technology - 2020

Courses

- | | |
|--------------------------------------|-------------------------------------|
| 1. mn | 2. Ground Control and Support |
| 3. Mine surveying Field Operation | 4. Blasting Engineering |
| 5. Principal of Mineral Exploitation | 6. Material Handling |
| 7. Underground Mining | 8. Technical Services in Mines(I) |
| 9. Mine Ventilation | 10. afadfd |
| 11. 0 | 12. 0 |
| 13. rez | 14. a in m |
| 15. kh in m | 16. k |
| 17. Mine Surveying | 18. Training (II) |
| 19. Laboratory of Rock Mechanics | 20. Drilling and Blasting |
| 21. computer programming | 22. bazdid zamin va madan |
| 23. nnn | 24. Field Mine Surveying |
| 25. Groundwater | 26. Thechnical Services in Mine |
| 27. Hydrogeology and Dewatering | 28. Training |
| 29. Shaft and underground excavation | 30. Surface Mining |
| 31. Mine Design | 32. Technical Services in Mines(II) |
| 33. Underground Excavation | 34. project |
| 35. Advanced Engineering Mathematics | 36. Technical drawing 1 |
| 37. thermodynamic | 38. Technical drawing |
| 39. Advanced Engineering Mathematics | 40. industrial Drawing and CAD |



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Thesis

Journals Papers

2025

1. Ventilation Design of Underground Mines in Incompressibility Model Using New Software (Ventilation Design: Incompressible Model)

Ebrahim Elahi Zeyni, Farhang Sereshki, Reza Kakaie

Volume: (20) 53 - 70

2024

2. The Complete Model of Wet Air Analysis in Mine Ventilation Design (CMWAA method)

Ebrahim Elahi Zeyni, Sereshki Farhang, Kakaie Reza

International Journal of Mining and Geo-Engineering Volume: (1) 1 - 9

2023

3. K همگرایی سریع تر روابط ترمودینامیکی هوای مرطوب با استفاده از روابط ؟ و

Ebrahim Elahi Zeyni, رضا کاکایی, فرهنگ سرشکی

Volume: (17) 26 - 36

4. Designing of open-pit mines using new corrected form of the Korobov algorithm

Ebrahim Elahi Zeyni, Seyed-Mohammad Esmaeil Jalali, Reza Kakaie

International Journal of Mining and Geo-Engineering Volume: (57) 123 - 130

5. Analyzing the effects of natural ventilation caused by excavating the waste pass on the ventilation network of the Anguran mine

majid fetri, Reza Shakoore Shahabi, Farhad Samimi Namin, Ebrahim Elahi Zeyni, mohamad hosin khani

International Journal of Mining and Geo-Engineering Volume: (57) 231 - 240

2021

6. New Model of Burden Thickness Estimation for Blasting of Open Pit Mines

Ebrahim Elahi Zeyni

International Journal of Engineering Volume: (34) 1381 - 1389

7. Fastest Modified Model of Hardy Cross Method for Ventilation Network Analysis of Mines (Second Conflation Model)

Ebrahim Elahi Zeyni, Farhang Sereshki, Reza Khaloo Kakaie

International Journal of Mining and Geo-Engineering Volume: (55) 133 - 143

2019

8. Optimization of Air Distribution in Mine Ventilation Networks Based on Genetic Algorithm (A Case Study: Kalariz Coal Mine)

reza shakoor shahbi, Hosain Laijani, Ebrahim Elahi Zeyni, mohammad hosein Sadeghzadeh

Volume: (8) 143 - 166

9. Extension of Newton-Raphson Method with Variable Directions in Ventilation Network Analysis of Underground Excavations

Ebrahim Elahi Zeyni

Volume: (8) 15 - 30

2016

10. GOUMA_CP - برنامه رایانه-ای تعیین محدوده بهینه استخراج زیرزمینی

, , , Ebrahim Elahi Zeyni,

Amirkabir Journal of Civil Engineering Volume: () -

2014

11. Improvement of Hardy Cross method in the analysis of underground excavations ventilation network

Ebrahim Elahi Zeyni

Volume: (3) -

2011

12. اعتبار سنجی الگوریتم کوروبوف اصلاح شده به کمک الگوریتم لرچ و گروسمن

Ebrahim Elahi Zeyni,

Volume: () 93 - 97

13. A new algorithm for optimum open pit design: Floating cone method III

Ebrahim Elahi Zeyni, ,

Journal of Mining and Environment Volume: () 41 - 48

2007

14. A Computer Program to Optimize Stope Boundaries Using Probable Stope Algorithm

, , , Ebrahim Elahi Zeyni

Volume: () 7 - 14

1. Southern Area Slope Stability Analysis of North C Anomaly in Sangan Iron Ore Mines Using Limit Equilibrium

1st International Conference 4th National Conference on Materials, Metallurgy Mining

2016

2. Selection of Main Fan for Ventilation Network of Coal Mine of Tunnel 8 using Ventsim Software

3rd National Iranian Coal Congress

Ebrahim Elahi Zeyni, ,

3. Dewatering Design of Eastern Kalariz Mine of Eastern Alborz Coal Company

3rd National Iranian Coal Congress

Ebrahim Elahi Zeyni,

4. Design of Decision Support system for Mine Gas Safety Evaluation in coal mines with fuzzy AHP

3rd National Iranian Coal Congress

, , Ebrahim Elahi Zeyni

5. The Effect of Natural Ventilation on Coal Mine of Lower Malach Aram by Ventsim Software

3rd National Iranian Coal Congress

, Ebrahim Elahi Zeyni,

2015

6. Review Lerchs and Grossmann Algorithms in Optimum Limit Design of Open Pit Mines

Ebrahim Elahi Zeyni

7. (Blasting Pattern Design in Abelu Limestone Mine (Neka Cement Corporation

Ebrahim Elahi Zeyni, ,

8. The Estimation of Geology and Extractive Reserves in western Bolbol Khan II Mine

Ebrahim Elahi Zeyni,

9. Ventilation Design of Big Mine by Ring Method

Ebrahim Elahi Zeyni, ,

2014

10. The Effect of Natural Ventilation on Coal Mine of Western Zemestan Yourt by Ventsim Software

Ebrahim Elahi Zeyni

11. Essential air flow intensity calculation of Eastern Zemestan Yourt coal mine

Ebrahim Elahi Zeyni

12. Arches support system design for development face of Bozorg tunnel coal mine K19 Layer

Ebrahim Elahi Zeyni

13. Stope wooden support system design of Takht coal mine K19 Layer

Ebrahim Elahi Zeyni

14. Designing vertical arc of coal mines for transmitting of 8 ton Locomotive

Ebrahim Elahi Zeyni

15. Selecting Main Fan in Big Mine of Tazareh by Critical Path Method

Ebrahim Elahi Zeyni

16. The Effect of Natural Ventilation on Coal Mine of Western Razmja by Ventsim Software

Ebrahim Elahi Zeyni

17. Designing Ventilation in Underground Mining by Manual Method (Case Study Coal Mine of Takht)

Ebrahim Elahi Zeyni

18. Designing of Horizontal and Vertical Arcs (Case Study Eastern Alborz Coal Company)

Ebrahim Elahi Zeyni

19. The Consideration of Floating Cone Algorithms in Optimum Pit Limit Designing of Open Pit Mines

Ebrahim Elahi Zeyni

20. Essential air flow intensity calculation of Tunnel 8 coal mine

2012

21. A New Column Searcher Algorithm to Pit Limit Optimization

1st Iranian Mining Technologies Conference-IMT2012

Ebrahim Elahi Zeyni

22. Selection of main ventilation fan of Kalariz coal mine in Eastern Alborz Coal Mines Company using Ventsim software

1st Iranian Mining Technologies Conference-IMT2012

Ebrahim Elahi Zeyni

23. Convert Coal to Oil and Gas

1st Iranian Coal Congress

Ebrahim Elahi Zeyni

24. Designing ventilation of west Razmja coal mine of Eastern Alborz Coal Mines Company using Ventsim software

1st Iranian Coal Congress

Ebrahim Elahi Zeyni

25. The Effect of Natural Ventilation on the Coal Mine Takht Eastern Alborz Coal Mines Company

1st Iranian Coal Congress

Research Project

1. The corrected Model of Hradý Cross Method

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