

## **Economics of Mining**

Arthur Lakes Library, Colorado School of Mines  
Updated 1/2009

This is a selected list of books and reports on aspects of the economics of mining, many available at the Arthur Lakes Library.

### **General**

- Australasian Institute of Mining and Metallurgy. 1998. Code and guidelines for assessment and valuation of mineral assets and mineral securities for independent expert reports (VALMIN Code). Carlton, South Vic., Australia: AusIMM.
- Diaz, J.A. 1981. Decision making model to assist the mining firm in long and intermediate range planning. M.Sc. thesis. Golden CO: Colorado School of Mines.
- Donges, J.B., ed. 1985. The economics of deep-sea mining. NY: Springer-Verlag.
- Edwards, A.C., ed. 2001. Mineral resource and ore reserve estimation--The AusIMM guide to good practice. AusIMM Monograph 23.
- Eggert, R. 1987. Metallic mineral exploration: An economic analysis. Washington DC: Resources for the Future.
- Eggert, R., Gocht, W., Zantop, H. 2001. Mineral resource development: Exploration and mining, valuation and markets, and mineral policies. Heidelberg: Springer-Verlag.
- Koch, M., Taylor, J.C., eds. 1989. Productivity and technology in the metallurgical industries. Warrendale: The Minerals, Metals, and Materials Society.
- Long, K.R. 1993. Economic fundamentals of mining law. USGS Open-File Report 93-0613.
- Mine to mill 1998 symposium. Brisbane, Queensland, Australia, October 1998. AusIMM Publication 4/98.
- Mining cost service [A subscription cost data update service]. Spokane WA: Western Mine Engineering.
- Runge, I.C. 1998. Mining economics and strategy. Littleton CO: SME.
- Stout, K.S. 1989. The profitable small mine: prospecting to operation. Chicago, IL: Maclean Hunter/E & MJ Mining Information Services.
- Tilton, J., ed. 1992. Mineral wealth and economic development. Washington DC: Resources for the Future.
- Tilton, J., ed. 1990. World metal demand: Trends and prospects. Washington DC: Resources for the Future.
- Torries, T.F. 1998. Evaluating mineral projects: Applications and misconceptions. Littleton CO: SME, Inc.
- US Bureau of Mines. 1995. Economic analysis tools for the minerals industry [computer file]. Denver CO: USBM Minerals Availability Field Office.
- US Department of Commerce. 1997. Economic census: Mining industry series [by SIC Code]. Washington DC: US Dept. of Commerce.
- Value tracking symposium 2002. Brisbane, Queensland, Australia, October 2002. AusIMM Publication 8/02.

### **Hard Rock, Metals**

- Economic considerations in underground mining equipment selection. 1982. Klemme, Michael. University of Nevada. M. Sc. thesis.
- An economic model for planning of a hard rock underground mine. 1983. Plodpradista, Wichian. Golden CO: Colorado School of Mines. Ph. D. thesis.
- Operating cost estimation models for underground metalliferous mines. 1993. Antwi, Henry. Golden CO: Colorado School of Mines. M. Eng. thesis.
- Underground metal mining: estimating preproduction and operating costs of small underground deposits. 1987. J.S. Redpath Limited. Ottawa, Ont: Energy, Mines and Resources Canada. CANMET (Canada Centre for Mineral and Energy Technology) special publication SP86-11E.

## **Gold Mining**

- Design, Economics, Mining and Metallurgy of Small Scale Gold and Silver Recovery Operations Short Course. 1981. Moscow ID: University of Idaho College of Mines and Earth Resources, Northwest Mining Association.
- An economic analysis of small-scale gold mining operations. 1984. Cornellisson, Joseph L. Golden CO: Colorado School of Mines. M. Sc. thesis.
- The economics of gold agreement structures. 1983. Shemeta, Clare E. Golden CO: Colorado School of Mines. M. Sc. thesis.
- A first approximation model for the valuation of the common shares of North American gold mining companies. 1990. Savage, Brian C. Golden CO: Colorado School of Mines. M. Sc. thesis.
- Gold and silver: leaching, recovery, and economics: proceedings from the 110th AIME Meeting, Chicago, Illinois, February 22-26, 1981. Schlitt, W.J.; Larson, W.C.; Hiskey, J.B., eds. Littleton CO: AIME.
- A simplified economic filter for open-pit gold-silver mining in the United States. 1998. Singer, D.A. U.S. Geological Survey Open-file report 98-207.

## **Placer, Industrial Minerals, Coal**

- The aggregate handbook. 1991. Barksdale, Richard D., ed. Washington, D.C.: National Stone Association.
- Alluvial mining: the geology, technology, and economics of placers. 1983. Macdonald, Eoin H. New York: Chapman and Hall.
- The Business of coal : economics and operations, accounting and taxation, business information systems. 1981. Arthur Andersen & Co. New York: McGraw-Hill.
- Cost estimation handbook for small placer mines. 1987. Stebbins, Scott A. Pittsburgh PA: U.S. Bureau of Mines.
- Economic evaluation of surface coal mining project: banker's perspective. 1982. Tsuda, Masao. Golden CO: Colorado School of Mines. M. Sc. thesis.
- Engineering and economic risk assessment for longwall coal mining systems. 1992. Bessinger, Stephen L. West Virginia University, Ph. D. thesis.

## **International Aspects**

- Emergence, performance, and world market impact of state mining companies in developing countries: a state-of-the-art review. 1988. Dobozi, Istvan. Golden CO: Colorado School of Mines, Dept. of Mineral Economics.
- The impact of international trade and finance policies on the U.S. mining industry: Mineral Economics Symposium, November 22, 1983.1984. New York: Pergamon.
- Mineral economics and the financing of mining projects in developing nations. 1993. Chisale, R.T.K. Zomba, Malawi: Geological Survey Dept.

## **Taxation**

- Global mining taxation comparative study. 1997. Golden CO: Institute for Global Resources Policy and Management, Colorado School of Mines.
- The impact of state and provincial tax and royalty policies on non-ferrous mining ventures: a comparative economic analysis. 1995. Zanko, Lawrence Matthew. University of Minnesota, M. S. thesis.
- Mining taxation: a global survey. 1983. New York: Coopers & Lybrand.
- The taxation of mineral enterprises. 1995. Otto, James, ed. Boston MA: Graham & Trotman/M. Nijhoff.
- Taxation of mining operations. Maxfield, Peter C.; Houghton, James L.; Crawford, Robert R.; Gaar, James R., eds. Boulder CO: Rocky Mountain Mineral Law Foundation.

## **Environmental Factors**

- Economic, management and environmental aspects of exploration and mining. 1995. Hobart, Tasmania: Centre for Ore Deposit and Exploration Studies, University of Tasmania. Master of economic geology course manual 18.
- Environmental economics & the mining industry. 1994. Martin, Wade E., ed. Boston: Kluwer Academic Publishers.

The mining firm's environmental protection strategy--an economic analysis. 1983. Robinson, Elizabeth L. Golden CO: Colorado School of Mines, Ph. D. thesis.