Modeling breakage rates in mills with impact energy spectra and ultra fast load cell data
E.T. Tuzcu and R.K. Rajamani (University of Utah, USA)

Influence of grinding media contact points' number in a ball mill on disintegration rate of grains of small size
A. Heim and T.P. Olejnik (Lodz Technical University, Poland)

Studies of the effect of tracer activity on positron emission particle tracking measurements on tumbling mills at PEPT Cape Town
T.S. Volkwyn, I. Govender, A. Buffler, J.P. Franzidis (University of Cape Town, South Africa), N. van der Meulen and E. Vermeulen (iThemba LABS, South Africa)

A new method for determination of fine particle breakage
D. Eksi, H. Benzer and A. Sargin (Hacettepe University, Turkey)

Power draw estimations in tumbling mills using PEPT
L.S. Bbosa, I. Govender, A.N. Mainza (University of Cape Town, South Africa) and M.S. Powell (JKMRC, Australia)

Circulation rate modelling of mill charge using positron emission particle tracking
D.V.V. Kallon, I. Govender and A.N. Mainza (University of Cape Town, South Africa)

Time-averaged kinematics in tumbling mills using positron emission particle tracking
A.J. Morrison, I. Govender and A.N. Mainza (University of Cape Town, South Africa)

Prediction of the Bond Work Index for variability analysis
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The effect of mixtures of grinding media shapes on milling kinetics
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Using DEM and SPH to model wet industrial banana screens
J. Fernandez, P.W. Cleary (CSIRO Mathematical and Information Sciences, Australia) and R.D. Morrison (JKMRC, Australia)

Study of RTD (residence time distribution) and mill hold up for a continuous centrifugal mill with various G/D ratios
Hee Chan Cho, Kwan Ho Kim and Hoon Lee (Seoul National University, South Korea)

Classifying best access points for return of external flows into flowsheets
P. Oghazi and B.I. Pålsson (Luleå University of Technology, Sweden)

Can cyclones improve grinding?
I. du Plessis (Multotec Process Equipment, South Africa)

A comparative study between cone crushers and theoretically optimal crushing sequences
E. Lee and C.M. Evertsson (Chalmers University of Technology, Sweden)

DEM simulation of performance and rock breakage in cone crushers
J. Quist and M. Evertsson (Chalmers University of Technology, Sweden)

Real-time algorithm for cone crusher control with two on-line variables
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The advantage of half scale to full scale HPGR modelling
F. Heinicke (Polysius AG, Germany)

Comparison of open and closed circuit HPGR application on dry grinding circuit performance
O. Altun, N.A. Aydogan, N.A. Toprak, H. Dundar and H. Benzer (Hacettepe University, Turkey)
Investigation of the breakage of hard and soft components under high compression: HPGR application
H. Benzer, N.A. Aydoğan and H. Dündar (Hacettepe University, Turkey)

Breakage of waste concrete for liberation using an autogenous mill
Kwan Ho Kim, Hee Chan Cho and Ji Whan Ahn (Seoul National University, South Korea)

SAG kWh/t measured using a standard test – 53 mill design projects in 6 years
J. Starkey (Starkey & Associates Inc., Canada)

Optimization of the SAG mill circuit at Kinross RPM Brazil
M.P. Gomes, L. Tavarez Jr. (Kinross’ Rio Paracatu Mineração (RPM), Brazil), E.S. Nunes Filho, J. Colacioppo and W. Valery (Metso Process Technology and Innovation, Australia)

Monitoring of the operational states of a semi-autogenous mill
J.J. Burchell, C. Aldrich, J.P. Barnard (University of Stellenbosch, South Africa) and J.W. de Groenewald (Anglo Platinum Management Services, South Africa)

Wear and design improvements in discharge cones for large SAG/AG mills
C. Faulkner (Bradken, Australia)

Energy efficient grinding circuits from operators’ viewpoint
Mingwei Gao (JKTech Pty Ltd, Australia) and R. Harvey (Mount Isa Mines, Australia)

The development of a dry energy efficient grinding circuit for Anglo American
W. van Drunick, N. Palm (Anglo Research, South Africa) and C. Gerold (Loesche, Germany)

Taking advantage of shapes of rock to reduce comminution energy
R. Chandramohan, M. Powell and P. Holtham (JKMRC, Australia)

Interpretation of vibration signal of tumbling mills

Ball-charge optimization of cement mills
P. Fleiger and S. Woywadt (Verein Deutscher Zementwerke e.V., Germany)

Total primary milling cost reduction by improved liner design
J. Dahner (Magotteaux (Pty) Ltd, South Africa) and A. Van den Bosch (Magotteaux SA, Belgium)

Milling rate of chosen mineral materials in a ball mill under changing apparatus – process conditions
T.P. Olejnik (Lodz Technical University, Poland)

Modeling the residence time distribution of a large ball mill as a function of load volume and percent solids
A.B. Makokha and M.H. Moys (University of the Witwatersrand, South Africa)

Coarse grinding applications using the Metso Vertimill®
G. Davey (Metso Process Technology Support, UK)

Comparison of the overall circuit performance in the cement industry: high compression milling vs ball milling technology
N.A. Aydoğan and H. Benzer (Hacettepe University, Turkey)

Simulation assisted capacity improvement of cement grinding circuit: case study cement plant
H. Dundar, H. Benzer, N.A. Aydogan, O. Altun, N.A. Toprak, O. Ozcan, D. Eksi and A. Sargin (Hacettepe University, Turkey)

Analysis of a stator earth fault protection system of a grinding mill converter-fed synchronous motor
R. Vargas and J. Pontt (Technical University Federico Santa María, Chile)

Synchronous electric drives for grinding mills
M. Ploc (GE Energy, Canada) and M. Clatworthy (GE Energy, Australia)
Less invasive vibrations measurement for monitoring and surveillance of grinding mills with gearless drives
J. Pontt, U. Ramos, F. Rojas, W. Valderrama and M. Olivares (Technical University of Santa Maria, Chile)

Implementing strategies to improve mill capacity and efficiency through classification by particle size only, with case studies
N.J. Barkhuysen (Derrick Corporation, South Africa)

DEM modelling of liner and lifter wear in grinding mills
M.S. Powell, N.S. Weerasekara (JKMRC, Australia), S. Cole, R.D. LaRoche and J. Favier (DEM Solutions Ltd, UK)

Prediction of mill structure behaviour in a tumbling mill
P. Jonsén, B.I. Pålsson (Luleå University of Technology, Sweden), K. Tano (LKAB, Sweden) and A. Berggren (Boliden Minerals, Sweden)

Is fine grinding an appropriate technology for the optimal extraction of refractory gold ores?
D. Capstick (Deswick Mining Consultants (Pty) Ltd, South Africa)

Investigation on the residence time and fine grinding at Float Characteristic Test Rig
F. Francis, J. Kabuba, E. Muzenda and M. Mollagee (University of Johannesburg, South Africa)

The effect of the design of a secondary grinding circuit on platinum flotation from a UG-2 ore
L. Maharaj, J. Pocock and B.K. Loveday (University of KwaZulu-Natal, South Africa)

Towards a mechanistic model for slurry transport in tumbling mills
I. Govender, G.B. Tupper and A.N. Mainza (University of Cape Town, South Africa)

Selection criteria of stirred milling technologies
B.R. Knorr (Metso Minerals Industries, Inc., USA)

Stress model as basis for optimization and scale-up of bead milling processes
A. Kwade (Technische Universität Braunschweig, Germany)

Tracking the motion of media particles inside an ISAmill using PEPT
A. van der Westhuizen, I. Govender, A. Mainza (University of Cape Town, South Africa) and J. Rubenstein (Xstrata Technology, Canada)

Fluidized mill media selection considerations
M. Gallimore (Metso Mining and Construction Technology, USA)

Effect of media size and mechanical properties on milling efficiency and media consumption
B.Y. Farber (Zircoa Inc., USA), B. Durant and N. Bedesi (Anglo Platinum Corp., South Africa)

Characterising porosity of multi-component mixtures in rotary mills
K Sichalwe, I Govender and A.N. Mainza (University of Cape Town, South Africa)

Validation of a DEM-CFD model for simulating particle-slurry flow in a stirred mill
C.T. Jayasundara, R.Y. Yang, A.B. Yu (University of New South Wales, Australia), I. Govender, A. Mainza, A. Westhuizen (University of Cape Town, South Africa) and J. Rubenstein (Xstrata Technology, Canada)

Enlightened circuit design is essential to the take-up of new equipment
M. Powell (JKMRC, Australia)