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Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Brakes and Brake Controls; Safety Brake Systems for Mine Hoists-Applying SIL to the Mine Hoist Brake System; Hoist Brakes-Disc or Caliper Shoes: How Do They Compare?; Design, Operation, and Maintenance of Ropes; Securing Safety of Ropes with a Visual Rope Inspection System; Investigation of Synthetic Ropes for Use in Friction Hoists; Control of Catenary Rope Oscillation on a Blair Multi-Rope Winder by Unbalancing the Load Sharing Between the Hoist Ropes; Axial and Rotational Slippage Behaviour of a Hoisting Rope Passing Over a Friction Drum Stress Analysis and Lifetime Extension of Hoist Rope Changing Koepe Friction Hoist Tail Ropes from Surface Without an Underground Tail Rope Changing Level; High-Performance Synthetic Ropes for Mine Hoisting; Cost-Benefit of Replacing Wire Ropes by Equivalent High-Performance Aramid Synthetic Ropes for Production Mine Hoisting in a Deep Mining Operation; A New Method for Automatic Reduction of Catenary Oscillations in Drum Hoist Installations; Motor, Drives, and Supply; Advantages of PWM-Fed Induction Machine Applied to Mine Hoists Interaction Between Harmonics from a Large Mine Hoist Drive and the Changing Power Network of a Mine Under Construction: Real Case and

Solutions Losses and Efficiency in Hoisting Systems; Mine Hoist Drive Applications Powered from Diesel Generators; AC Drive Selection for Mine Hoists; Key Technology Research on Explosion-Proof Converters Based on Back-to-Back Double Three-Level Topology; Ingedrive MV100: A Medium Voltage and Full Power Redundant AC Drive for Driving the Tongting Mine Hoist System; Hoist Control Based on Safety Integrity Level (SIL) or Performance Level (PL) Standards

An Illustrated Journey Through Functional Safety-Lessons from History Functional Safety for Mine Hoist-From Lilly to SIL3 Hoist Protector®; The Implication of Choosing a Certain Functional Safety Standard for Hoist and Haul Applications; Functional Safety Standards and Application to Upgrading Mine Hoists; Hoisting System Elements; Developments in Computerized Systems for Mine Hoist Control; Emergency Braking of Mine Shaft Hoists Applying Friction Arresting Devices-Theory, Tests, and Industrial Applications; Lightweight Skips-Factors Influencing Operational Reliability

Underground Horizontal Transport KUJ 1365-A New Main Haulage Level in the LKAB Kiruna Mine; Sliding Mode Control for Path Tracking of Underground Mining Articulated Dump Truck; Incline Transport: Hoist, Conveyor, and Truck; Thermal Analysis of Cooling Network System for Driving Motor of Underground Articulated Dump Truck; Benefits of High-Powered Gearless Conveyor Drives Applied to Medium-Power Conveyors; The Power of Steel in Hard Rock Haulage by Hoist and Belt Conveyor; Comparison of a Hoisting System and Vertical Conveyor for Shallow Shafts; Shaft Guiding Systems

Investigation on Conveyance Motion Using CFD and Structural Analysis
