



Volcán Nevado del Ruiz. Fotografía de Jaime Duque

MANUAL DE GEOLOGIA PARA INGENIEROS

ANEXO
GESTION DEL RIESGO

GONZALO DUQUE
ESCOBAR

Por Gonzalo Duque-Escobar *

Temas asociados a la gestión integral del riesgo, caso Manizales, de interés para la ecorregión cafetera y Colombia

0- A MODO DE FUNDAMENTO

Aspectos geofísicos de los Andes de Colombia:

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Universidad Nacional de Cuyo

A red circular graphic element, resembling a stylized sun or a lens flare, is positioned to the right of the university name. It has a soft, glowing effect with a gradient from red to white.

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Lineamientos para la implementación de una filosofía de gestión ambiental Luis Felipe Granada Aguirre, Narlly Álvarez Castro, María Isabel Afanador Rodríguez, 2019-03-01 El libro presenta las tendencias de la gestión ambiental en el mundo y recoge en su contenido la información necesaria para que cualquier ciudadano entienda de manera simple cuáles son las acciones a tomar para realizar una gestión ambiental acorde con las situaciones y circunstancias de su territorio El libro es útil para la toma de decisiones ambientales desde el punto de vista de la gestión ambiental empresarial y municipal para profesionales de todas las áreas que desean o incursionan en el tema de la gestión ambiental en sus organizaciones El libro propone los Lineamientos para la Implementación de una Filosofía de Gestión Ambiental LFGA a nivel empresarial y municipal en tres secciones la uno Componentes ambientales conceptos para abordar la solución de problemas la dos Técnicas de análisis de gestión ambiental y la tres Técnicas de procedimiento e instrumentos de gestión ambiental Este libro recoge las experiencias empíricas y científicas que a lo largo de quince años se han aprendido y aprehendido en el tema de la gestión ambiental con la colaboración de profesores profesionales y estudiantes de grado especialización y maestría de ingeniería ciencias económicas y ciencias de la salud en la Universidad Libre Seccional Cali **Boletín - Universidad Nacional Autónoma de México, Instituto de Geología** Universidad Nacional Autónoma de México. Instituto de Geología, 1898

Lecturas sobre derecho del medio ambiente Tomo XIX Varios, 2020-03-02 El derecho del medio ambiente o derecho ambiental enfrenta cada día desafíos de mayor escala y dificultad el informe Geo6 Planeta sano Gente sana dado a conocer en el marco de la Cuarta Asamblea de las Naciones Unidas para el Medio Ambiente hace un llamado de apremio a la Comunidad Internacional y a la sociedad en general para afrontar de manera efectiva los retos ambientales del presente a fin de alcanzar los Objetivos de Desarrollo Sostenible y otras metas acordadas a escala internacional como por ejemplo las definidas mediante el Acuerdo de París PNUMA 2019 El citado informe pone de presente que un planeta insalubre trae como consecuencia personas enfermas y que la evidencia recaudada prueba que efectivamente estamos ante una crisis ambiental de extraordinarias proporciones Algunos hechos que validan esta afirmación son la grave pérdida de biodiversidad el cambio climático la contaminación de la atmósfera y del agua el agotamiento de los océanos y el cambio en el uso de la tierra factores que deben ser resueltos urgentemente El GEO6 ilustra en detalle los costos sociales y económicos asociados a este fenómeno al señalar que la exposición al aire y al agua contaminados cobra nueve millones de vidas al año el precio anual de la contaminación se calcula en US 4 6 billones y existe un significativo proceso de extinción de especies 42% de los invertebrados terrestres 34% de los invertebrados de agua dulce y 25% de los invertebrados marinos que pone en peligro la integridad planetaria PNUMA 2019 Así las cosas según PNUMA si continuamos incumpliendo los compromisos internacionales que se han definido para lograr la protección de la naturaleza si no se alcanzan las metas ambientales definidas en la Agenda 2030 para el Desarrollo Sostenible ni las metas ambientales convenidas internacionalmente para 2050 si continuamos

demonstrando nuestra incapacidad de adoptar medidas urgentes se generar n consecuencias negativas y potencialmente irreversibles para los recursos ambientales esenciales y para la salud humana **Identificación de fuentes de agregados para pavimentos** María Fernanda García Aladín,Luis Mario Ordóñez Silva,José Luis Llano Muñoz,Erlo Gerardo Travi Penna,2019-12-16 El libro Identificaci n de fuentes de agregados para pavimentos esta dirigido a quien se desempe a en el campo de la infraestructura via y tiene inter s en los agregados utilizados en la elaboraci n de subbases bases granulares concretos y mezclas asf lticas Inicialmente aborda los procesos relacionados con la formaci n geol gica de las rocas y su progresiva transformaci n en suelo producto de la meteorizaci n Posterior a eso describe la metodolog a para identificar y aprovechar fuentes de suelos y agregados utilizando sistemas de informaci n geogr fico Por otra parte para contextualizar el entorno normativo que soporta el control de calidad de los agregados presenta procedimientos de ensayos con c lculos num ricos detallados Los resultados obtenidos son analizados con respecto a las especificaciones vigentes para definir la aceptaci n o rechazo del material Esta metodolog a se puede utilizar en todas las fases de los proyectos de infraestructura Apropiarse de los conceptos aqu expuestos secunda la toma de decisiones en proyectos de obra civil Boletín - Universidad Nacional Autónoma de México, Instituto de Geología Universidad Nacional Autónoma de México. Instituto de Geología,1908

Revista de vías y transportes ,2006 **Catálogo de publicaciones de la Universidad Nacional de Cuyo, 1939-1979** Universidad Nacional de Cuyo,1979 *Revista - Instituto de Geología* Universidad Nacional Autónoma de México. Instituto de Geología,1990 *Suelos del eje cafetero* Universidad Tecnológica de Pereira. Facultad de Ciencias Ambientales,2001 Tradición Académica Lina Rocío Medina Muñoz,2000 **Rock Mechanics: Achievements and Ambitions** Meifeng Cai,2011-09-22 The present work provides an important stimulus for the next generation of rock engineers because in the future there will be more emphasis on the use of the Earth s resources and their sustainability and more accountability of engineers decisions The increasing energy demand will be met by the continued operation and development of new coal mines hydroelectric plants and nuclear power stations with one or more underground nuclear waste repositories In particular enhanced methods of site investigation rock characterisation rock failure understanding computer modelling and rock excavation and support are needed Many of the 200 papers indicate that we can be confident in the continuing development of rock mechanics and r **Boletín - Univesidad Nacional Autónoma de México, Instituto de Geología** Universidad Nacional Autónoma de México. Instituto de Geología,1897 *Boletín de minas, industria y construcciones* Universidad Nacional de Ingeniería (Peru),1943 National Union Catalog ,1983 Includes entries for maps and atlases **Anuario bibliográfico** Universidad Nacional Autónoma de México. Instituto de Investigaciones Bibliográficas,1960 **Catalog of the Latin American Collection** University of Texas at Austin. Library. Latin American Collection,1969 **Boletín** Universidad Nacional de Ingeniería (Peru),1960 *Bibliographic Guide to Latin American Studies* Benson Latin American Collection,1988 **The National Union Catalog** ,1961 **Boletín de minas industria y**

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