

HARDY CROSS METHOD ON EXCEL

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Handout

Hardy-Cross Procedure



- 1) How many loops are there?
- 2) What is n?
- 3) Define direction
- 4) Label pipes and loops
- 5) Assign "guess" flow rates
- 6) Find r for all pipes
- 7) Find $rQ|Q|$ and $nr|Q|$ for every pipe in a loop
- 8) Sum $rQ|Q|$ and $nr|Q|$ for **each loop** (sum them per loop, not all loops)
- 9) Find ΔQ for each loop
- 10) Apply correction factor to each pipe in the loop

$$\Delta Q = - \frac{\sum rQ|Q|}{\sum nr|Q|}$$

Example

Iteration	Loop	Pipes	n	r	Q	$rQ Q $	$nr Q $	ΔQ	Corrected Q
1	1	1-4	2	5	50	15000	600	-2.668	47.332

Hardy Cross En Excel

Caudex Vitelo Pañaranda Osorio

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Hardy Cross En Excel:

An Applied Guide to Process and Plant Design Sean Moran, 2019-06-12 An Applied Guide to Process and Plant Design 2nd edition is a guide to process plant design for both students and professional engineers The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design subjects that are usually learned on the job rather than in education You will learn how to produce smarter plant design through the use of computer tools including Excel and AutoCAD What If Analysis statistical tools and Visual Basic for more complex problems The book also includes a wealth of selection tables covering the key aspects of professional plant design which engineering students and early career engineers tend to find most challenging Professor Moran draws on over 20 years experience in process design to create an essential foundational book ideal for those who are new to process design compliant with both professional practice and the IChemE degree accreditation guidelines Includes new and expanded content including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables covering aspects of professional plant design which early career designers find most challenging Hardy Cross Dillard Hardy Cross Dillard, 1995 Mathematical Modeling using Differential Equations, and Network Theory Ioannis Dassios, 2020-06-23 This Special Issue collects the latest results on differential difference equations the mathematics of networks and their applications to engineering and physical phenomena It features nine high quality papers that were published with original research results The Special Issue brings together mathematicians with physicists engineers as well as other scientists **Mecánica de fluidos - 2da edición** Caudex Vitelo Pañaranda Osorio, 2024-01-01 Mec nica de Fluidos segunda edici n es una gu a completa para estudiantes de pregrado y profesionales de carreras tales como Ingenier a Civil Sanitaria y Ambiental tecn logos en Ingenier a Civil Sanitaria Ambiental y Saneamiento Ambiental y a quienes necesiten de un texto que les proporcione los principios b sicos de la mec nica de fluidos requeridos para el estudio o ejercicio profesional de estas reas Uno de los aspectos distintivos del libro consiste en tomar las dos ramas m s importantes est tica y flujo de fluidos para desarrollar a partir de los principios que las gobiernan los contenidos que las fundamentan excluyendo los componentes que no se identifiquen como esenciales en la formaci n de los estudiantes y ejercicio de profesionales mencionados De esta manera el libro contiene de una manera breve consecutiva y did ctica los principios f sico matem ticos que sustentan esta rama con la profundidad requerida pero sin desviarse del principio fundamental cual es el de servir de texto gu a a estudiantes y consulta a profesionales En la segunda edici n de Mec nica de Fluidos se ha revisado y ajustado el contenido y la aplicaci n de ejercicios para una mejor sencillez comprensi n y aprendizaje de los temas *Water and Wastewater Engineering Technology* Subhash Verma, 2023-07-25 Water and Wastewater Engineering Technology presents the basic concepts and applications of water and wastewater engineering technology It is

primarily designed for students pursuing programs in civil water resources and environmental engineering and presents the fundamentals of water and wastewater technology hydraulics chemistry and biology The book examines the urban water cycle in two main categories water treatment and distribution and wastewater collection and treatment The material lays the foundation for typical one semester courses in water engineering and also serves as a valuable resource to professionals operating and managing water and wastewater treatment plants The chapters in this book are standalone offering the flexibility to choose combinations of topics to suit the requirements of a given course or professional application Features Contains example problems and diagrams throughout to illustrate and clarify important topics Problems both in SI and USC system of units The procedure of unit cancellation followed in all solutions to the problems Design applications and operation of water and wastewater system emphasized Includes numerous practice problems with answers and discussion questions in each chapter cover a range of engineering interventions to help conserve water resources and preserve water quality

Mine Planning and Equipment Selection 2000 T.N. Michalakopoulos,G.N. Panagiotou,2000-01-01 This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines geotechnical stability in surface and underground mines and mining and the environment **Recent Advances in Applied Mechanics** Tezeswi Tadepalli,Vijayabaskar Narayanamurthy,2022-04-04 This book comprises the proceedings of the Virtual Seminar on Applied Mechanics 2021 organized by the Indian Society for Applied Mechanics The contents of this volume focus on solid mechanics fluid mechanics biomechanics biomedical engineering materials science and design engineering The authors are experienced practitioners and the chapters encompass up to date research in the field of applied mechanics This book will appeal to researchers and scholars across the broad spectrum of engineering involving the application of mechanics in civil mechanical aerospace automobile bio medical material science and more *Modern American Coal Mining* Bise, Christopher J.,2013-10-18 *Modern American Coal Mining Methods and Applications* covers a full range of coal mining and coal industry topics with chapters written by leading coal mining industry professionals and academicians Highlights from the book include coal resources and distribution mine design advances in strata control and power systems improvements in surface mining ventilation to reduce fires and explosions drilling and blasting staffing requirement ratios management and preplanning and coal preparation and reclamation The text is enhanced with 11 case studies that are representative of underground and surface mines in the United States Narrative descriptions and appropriate mine plans are presented with attention given to unique features and situations that are addressed through mine design and construction A useful glossary is included as are many examples figures equations and tables to make the text even more useful Mine Ventilation Carlos Sierra,2020-07-24 This textbook focuses on underground ventilation addressing both theoretical and practical aspects Readers will develop a deeper understanding of mine ventilation and adjacent areas of research The content is clearly structured moving through chapters in a pedagogical way It begins by presenting an introduction to fluid mechanics before

discussing the environmental conditions in mines underground fire management and international legislation concerning mines Particular attention is paid to development ends ventilation an area that is underrepresented in scientific research Each chapter includes a concise theoretical summary followed by several worked out examples problems and questions to develop students skills This textbook will be useful for undergraduate and master s degree students around the world In addition the large number of practical cases included make it particularly well suited to preparing for professional engineer examinations and as a guide for practising engineers

Advances in Civil Engineering and Infrastructural Development
Laxmikant Madanmanohar Gupta, Maya Rajnarayan Ray, Pawan Kumar Labhasetwar, 2020-11-13 This book comprises selected proceedings of the International Conference on Recent Advancements in Civil Engineering and Infrastructural Developments ICRAEID 2019 The contents are broadly divided into five areas i smart transportation with urban planning ii clean energy and environment iii water distribution and waste management iv smart materials and structures and v disaster management The book aims to provide solutions to global challenges using innovative and emerging technologies covering various fields of civil engineering The major topics covered include urban planning transportation water distribution waste management disaster management environmental pollution and control environmental impact assessment application of GIS and remote sensing and structural analysis and design Given the range of topics discussed the book will be beneficial for students researchers as well industry professionals

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