

# **La recherche opérationnelle**

Cours préparé et présenté par: Mme ZEMMOURI

## **Plan du cours**

**I- Définitions**

**II- Quelques exemples de problèmes**

**III- Résolution graphique du problème à deux variables**

**IV- La programmation linéaire**

**V- La méthode du simplexe**

# Recherche Opérationnelle Programmation Linéaire

**Jean-Marc Boussard,Jean-Jacques  
Daudin**

## **Recherche Opérationnelle Programmation Linéaire:**

*Recherche opérationnelle* Michel Nakhla,Jean-Claude Moisdon,2010 La 4e de couverture indique Cet ouvrage propose une introduction aux méthodes généralement utilisées dans le domaine de l'optimisation Son objectif est double proposer un ensemble de modélisations classiques l'aide principalement de la théorie des graphes la programmation linéaire et les processus aléatoires d'écrire un ensemble de méthodes exactes ou approchées pour résoudre les problèmes d'optimisation ainsi modélisés Issu du cours de recherche opérationnelle de l'école Mines ParisTech il s'adresse aux élèves des écoles d'ingénieurs aux étudiants de deuxième cycle ainsi qu'à tous ceux ingénieurs chercheurs qui souhaitent se familiariser avec les méthodes d'optimisation en gestion les plus souvent utilisées

*Exercices et problèmes résolus de recherche opérationnelle* Roseaux

(Paris),1983    **La Recherche opérationnelle** Robert Faure,Jean-Paul Boss,1980-01-01T00:00:00+01:00 Cet ouvrage est une rédition numérique d'un livre paru au XXe siècle désormais indisponible dans son format d'origine

**Recherche opérationnelle pour ingénieurs** Dominique de Werra,Thomas M. Liebling,Jean-François Héche,2003-01-01 Permettant la conception et l'entretien de systèmes logistiques et techniques toujours plus complexes la recherche opérationnelle fait aujourd'hui partie du bagage essentiel tout ingénieur Avec un formalisme mathématique riche ce livre offre une introduction aux principaux outils de modélisation et de résolution des problèmes de recherche opérationnelle ainsi qu'aux méthodes d'optimisation et de simulation Les concepts introduits sont motivés par de nombreux exemples et exercices illustrant diverses applications aux sciences de l'ingénieur et la gestion Cet ouvrage s'adresse aux étudiants en sciences de l'ingénierie mathématiques et gestion enseignants chercheurs et ingénieurs intéressés par les méthodes de base et les applications de la recherche opérationnelle

**Recherche opérationnelle** A. Henry-Labordère,Arnaud Henry-Labordère,M. Grojnowski,1976

**Integer Programming and Related Areas** C. Kastning,2013-11-11 Integer Programming is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut für Konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by

6767 authors which were classified by 11839 descriptor entries     *Raffinage du pétrole (Le). Tome 5. Exploitation et gestion de la raffinerie* Jean-Pierre Favenne, 1998-10-15 Dans ce volume le lecteur trouvera rassemblés une revue de l'environnement et de l'économie du raffinage, l'importance et le rôle du pétrole brut dans la demande de produits marchands et les prix des bruts et des produits courts et marges de raffinage, l'évolution des capacités de raffinage et des contraintes, une présentation des outils d'optimisation et de contrôle des opérations, les éléments sur la gestion des bilans matériels et une description de la gestion et de l'organisation d'une raffinerie. Table des matières : I. Environnement du raffinage 1. Pétrole et énergie 2. Produits pétroliers 3. Utilisations caractéristiques marchandes 3. Marchés internationaux du pétrole 4. Raffinage : rappels techniques 5. Investissements 6. Marges courantes 7. Evolution probable 8. Outils 9. Introduction à la programmation linéaire appliquée au raffinage 10. Mise en œuvre de la programmation linéaire dans les activités de raffinage 11. Automatisation, contrôle des procédés et traitement de l'information 12. Les applications et leur mise en œuvre 13. Gestion et organisation 14. Gestion et optimisation des opérations de raffinage 15. Logistique, transports et expéditions 16. Analyse fonctionnelle et organisation 17. Aspects managériaux 18. Bibliographie 19. Index.

Recherche opérationnelle Fouad Sabry, 2024-06-22 Qu'est-ce que la recherche opérationnelle ? La recherche opérationnelle est souvent abrégée par l'initial OR, est une discipline qui traite du développement et de l'application de méthodes analytiques pour améliorer la prise de décision. Le terme « science de gestion » est parfois utilisé comme synonyme. Comment vous en bénéficierez : I. Informations et validations sur les sujets suivants : Chapitre 1 : Recherche opérationnelle ; Chapitre 2 : George Dantzig ; Chapitre 3 : Sciences de gestion ; Chapitre 4 : Système de systèmes ; Chapitre 5 : Complexité sociale ; Chapitre 6 : Science computationnelle ; Chapitre 7 : Analyse décisionnelle ; Chapitre 8 : Processus hiérarchique analytique ; Chapitre 9 : David B. Hertz ; Chapitre 10 : Reuven Rubinstein. II. Rpondez aux principales questions du public sur la recherche opérationnelle qui vous adresse ce livre : Les professionnels, les étudiants de premier cycle et des cycles supérieurs, les passionnés, les amateurs et ceux qui souhaitent aller au-delà des connaissances ou des informations de base pour tout type de recherche opérationnelle.

Précis de recherche opérationnelle - 7e éd. Robert Faure, Bernard Lemaire, Christophe Picouleau, 2014-04-02 Depuis sa première édition, ce précis a connu une très large diffusion qui en a fait un vecteur privilégié d'initiation et de formation à la recherche opérationnelle pour des générations d'étudiants et d'ingénieurs. Le souci des auteurs a été de moderniser et de compléter le contenu de ce grand classique tout en accentuant son caractère pédagogique, qui est de replacer l'exposé des principales méthodes de la recherche opérationnelle dans un contexte appliqué. Il est accessible des lecteurs dont la formation de base est variée et pas nécessairement spécialisés en mathématiques et/ou en informatique. Il comporte plusieurs niveaux de lecture, les paragraphes les plus pointus ayant été placés en fin de chapitre. Ainsi convient-il tout fait une découverte de la recherche opérationnelle comme son application en fin de Licence ou en début de Master. Cette septième édition remporte visiblement augmenté de nouveaux exercices corrigés et exemples.

La recherche opérationnelle Yves Nobert, Roch Ouellet, Parent, Régis, 2001 Se décompose en 8 chapitres. Le rôle et les applications de la recherche opérationnelle, La modélisation, La résolution graphique de modèles linéaires, La programmation linéaire, La recherche opérationnelle dans l'industrie, La recherche opérationnelle dans l'administration, La recherche opérationnelle dans l'agriculture, La recherche opérationnelle dans l'industrie manufacturière, La recherche opérationnelle dans l'industrie pétrolière et gazière.

aires continus comportant deux variables de décision L algorithme du simplexe L analyse postoptimale La programmation linéaire en nombres entiers Les problèmes de recherche La gestion de projets [Exercices et problèmes de recherche](#)

[opérationnelle](#) Gérard Desbazeille,1964 [Programmation linéaire - Une approche mathématique et algorithmique](#) Salim Haddadi,2021-03-16 Cet ouvrage est destiné à un public universitaire de niveau avancé en licence et en master Les domaines cibles sont essentiellement Mathématiques Informatique Ingénierie Economie Management Ce livre met l'accent aussi bien sur l'aspect théorique que sur l'algorithmique ainsi que sur les questions liées à la complexité Le chapitre 1 introduit ce qui est un programme linéaire PL et quelques faits basiques afférents L'ensemble de toutes les solutions d'un PL est un polyèdre et le chapitre 2 étudie la géométrie de ce dernier Le chapitre 3 étudie la théorie fondamentale sousjacente Cette théorie permet la conception de l'algorithme du simplexe présent et analyse sous tous ses aspects correction finitude et complexité au chapitre central numéroté 4 Ensuite de plus d'efficacité le chapitre 5 propose une méthode dite de raffinement qui consiste en une version implantable de l'algorithme du simplexe Le chapitre 6 étudie la théorie de la dualité pour finir avec un moyen d'obtention d'un certificat d'optimalité en temps polynomial Enfin on montre que le problème de la PL est facile en proposant une description succincte d'un algorithme polynomial la méthode des ellipses Une annexe est destinée à rappeler quelques faits utiles d'algèbre linéaire Quatrième de couverture [La recherche opérationnelle et la programmation linéaire](#) Leo Stefens,1964

**Recherche opérationnelle** Jean-Claude Moisdon,2000 , [Environmental Assessment of Socioeconomic Systems](#) D. Burkhardt,2013-03-09 Neglect of the relation between the socio-economic system and its natural environment has had detrimental consequences in the past for example the pollution of the natural environment water air and soil by producing, using and consuming the products of our industrialized economy the foreseeable exhaustion of natural resources by continuing the increase of industrial production Most of the recent activities both in research and in administration against these impacts have been technically oriented with the aim of stimulating and introducing new technologies of production and new products to diminish the environmental pollution But these efforts which are of course necessary cannot be successful in approaching the aim which should and must in the long term view be defined as the development of society in balance with the natural environment Therefore in addition to an assessment of technologies emphasis should be put on an assessment of socio-economic systems On different levels individual and social preferences determine quantities and qualities of production and consumption using economical values e.g. market prices as regulators Following this argumentation an environment assessment of activities against pollution has especially to consider the social response to environmental impacts Of course this topic must be a subject of interdisciplinary research The challenge concerned in this context is to increase the knowledge of the relationship between social economic and technical subsets [Statistique](#) Yadolah Dodge,2004 La statistique joue un rôle de tout premier plan dans dinnombrables domaines en sciences pures comme en sciences appliquées des mathématiques la physique de la chimie la biologie ou de l'économie la sociologie c'est un outil devenu

indispensable Pour avoir un accs pratique et rapide aux concepts et aux mthodes de la statistique la formule la plus efficace est celle du dictionnaire quil soit consult ponctuellement ou bien utilis dans le cadre dune recherche approfondie cet ouvrage contient linformation ncessaire mieux il procure plusieurs degrs dexplication adapts chaque besoin chaque entre correspondent un historique de la notion traite des explications mathmatiques des domaines de validit et limitations des exemples et des mots cls avec leur quivalent en anglais La biographie de nombreux chercheurs illustres invite suivre lvolution de la statistique de ses dbuts jusqu la priode contemporaine o elle a atteint sa pleine maturit Un systme de renvois permet de prolonger lexplique des termes considrs et dacqurir une vue densemble de chaque sujet tudi Instrument de travail ce dictionnaire est aussi un livre de rfrence pour qui veut connatre le langage et les mthodes dune science en constante volution et toujours sollicite par les dveloppements de lactualit

### **La Programmation linéaire dans les**

**modèles de production** Jean-Marc Boussard,Jean-Jacques Daudin,1987-01-01T23:00:00+01:00 Le chercheur exprime g nralement les r sultats de ses investigations dans des publications d audience troite et l usage des seuls sp cialistes Les monographies publi es par l Institut national de la recherche agronomique s adressent au contraire tous ceux qui s intressent aux sciences de la vie particuli rement dans leurs implications avec les productions agricoles leurs transformations en denr es alimentaires les cosyst mes l am nagement de l espace rural et la pr servation de ses ressources naturelles C est toute la vie du monde rural qui est ainsi int ress e Biologistes agronomes v t rinaires m decins technologues cologistes sociologues et conomistes doivent trouver dans ces ouvrages la fois une source d information pr cieuse et la possibilit de mise jour de leurs connaissances

### **Cahiers du Centre d'études de recherche opérationnelle** Université libre de

Bruxelles. Centre d'études de recherche opérationnelle,1984

### **Cahiers Du Centre D'études de Recherche**

**Opérationnelle** Centre d'études de recherche opérationnelle (Brussels, Belgium),1971

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