



Israel Félpe Lopes · Danilo Pereira Pinto

# **Eficiência Energética em Sistemas de Bombeamento Hidráulico**

Estudo em bancadas didáticas



**Novas Edições  
Acadêmicas**

# Eficia Energa Sistemas Bombeamento Hdrlico

**REY MARTINEZ, FRANCISCO  
JAVIER, VELASCO GOMEZ, ELOY, REY  
HERNÁNDEZ, JAVIER MARÍA**

## **Eficiência Energética Sistemas Bombeamento Hidráulico:**

### **Eficiência Energética Em Sistemas de Bombeamento Hidráulico** Lopes Israel Filipe, Pereira Pinto

Danilo, 2015-11-27 A Eficiência Energética tem se mostrado cada vez mais como um tema de grande importância para a engenharia. As políticas de combate ao desperdício de energia podem trazer grandes benefícios se aplicadas aos sistemas industriais em face ao grande potencial de economia que estes representam para o país. Este trabalho estuda a aplicação do combate ao desperdício de energia em um setor muito presente na indústria: os sistemas de bombeamento. O trabalho traz uma abordagem inicial de conceitos relacionados à Hidrodinâmica aplicados aos sistemas de bombeamento. Posteriormente é feita uma verificação dos conceitos por meio de ensaios em bancadas didáticas reproduzindo laboratorialmente algumas das situações ocorridas na prática industrial. UF0565 - Eficiência energética en las instalaciones de calefacción y ACS en los edificios

Daniel Navas Carrillo, 2015-05-22 La finalidad de esta Unidad Formativa es enseñar a determinar la eficiencia energética de las instalaciones de calefacción y ACS en los edificios. Para ello, en primer lugar, se introducirán los conceptos básicos de la termodinámica, la transmisión de calor, la combustión y los combustibles. A continuación, se profundizará en las características principales de las instalaciones de calefacción y producción de ACS, las redes de transporte y los equipos terminales de calefacción. Posteriormente, se analizarán los procesos de regulación y control de instalaciones de calor y de diseño eficiente de las instalaciones de calefacción y ACS. Para terminar la unidad, se hará hincapié en la contribución solar para agua caliente sanitaria y piscinas, y en el rendimiento y eficiencia energética de los elementos de las instalaciones térmicas. **Eficiência**

**energética en las instalaciones de calefacción y ACS en los edificios. ENAC0108** Francisco José Entrena

González, 2016-02-10 Libro especializado que se ajusta al desarrollo de la cualificación profesional y adquisición de certificados de profesionalidad. Manual imprescindible para la formación y la capacitación que se basa en los principios de la cualificación y dinamización del conocimiento como premisas para la mejora de la empleabilidad y eficacia para el desempeño del trabajo. *Eficiência energética en instalaciones y equipamiento de edificios*, 2010-03 Este libro realiza una descripción

de los principales equipos e instalaciones que prestan los distintos servicios en los edificios y analiza el potencial de ahorro energético existente aplicando las mejores técnicas disponibles (MTD) en cada caso. Se estructura en cinco capítulos: 1. Introducción; 2. Eficiencia desde la gestión; 3. Eficiencia en el uso final de la energía; 4. Eficiencia en las instalaciones; 5. Alternativas energéticas. Concluye con un glosario de términos y un apartado bibliográfico. CIENCIAS APLICADAS Ingenieros

20 **Eficiência Energética** José Wagner Maciel Kaehler, 2024-07-01 Aborda os procedimentos e métodos de análise avaliativa e síntese que consubstanciam uma avaliação gerencial e tecnológica da eficiência energética, atalcanar as medidas e oportunidades de implantação das mesmas. Texto de contracapa O livro enfoca os aspectos gerenciais de combate ao desperdício de energia e de promoção de seu uso racional. Aborda os procedimentos e métodos de análise avaliativa e síntese que consubstanciam uma avaliação gerencial e tecnológica da eficiência energética, atalcanar as medidas e oportunidades de

implanta o das a es Foca tamb m os processos de monitoramento e verifica o dos resultados pr ticos alcan ados assim como os aspectos relativos aos procedimentos de auditoria energ tica Todo o escopo do livro fundamentado nos princ pios da ABNT ISO NBR 50 001 fazendo uso de modelos computacionais como o SAGEE Sistema de Apoio Decis o para a Gest o da Efici ncia Energ tica dispon vel no portal do PROCELINFO ELETROBRAS e em processo de atualiza o pela equipe do EIRE UNIPAMPA

**Eficiencia energética de los edificios. Certificación energética** REY MARTINEZ, FRANCISCO JAVIER, VELASCO GOMEZ, ELOY, REY HERNÁNDEZ, JAVIER MARÍA, 2018-01-01 Este libro actualiza la primera parte del libro titulado Eficiencia energ tica en edificios Certificaci n y auditor as energ ticas con las ltimas normativas vigentes tanto nacionales como internacionales El objetivo de esta obra es dar a conocer y dotar de herramientas pr cticas al certificador energ tico de edificios factores constructivos que determinan la demanda energ tica del edificio sistemas de calefacci n ventilaci n iluminaci n aire acondicionado ACS recuperaci n de energ a y sistemas de energ as renovables para obtener el consumo de energ a del edificio y emisiones de CO2 asociadas para su calificaci n energ tica y medidas de mejora que pueden ser implementadas para mejorar la calificaci n energ tica obtenida de un determinado edificio En el libro se analizan diferentes metodolog as de certificaci n energ tica utilizadas en otros pa ses adem s de la calificaci n energ tica del edificio en Espa a mediante el manejo de las herramientas de software actuales que se encuentran reconocidas por el ministerio espa ol Para que este libro sirva como gu a del certificador energ tico se incluyen los esquemas de utilizaci n de las diferentes herramientas inform ticas HULC CE3 CE3X y CERMA la tipolog a de los edificios para los que est n recomendadas y ejemplos de certificaci n energ tica utilizando las metodolog as m s habituales

**EFICIÊNCIA ENERGÉTICA NA PRODUÇÃO DE PETRÓLEO E EM CENTRAIS TERMELETRICAS** Alessandro Nogueira da Costa, 2021-06-24 Efici ncia Energ tica e Sustentabilidade s o temas que cada vez mais v m se destacando nas agendas das na es das empresas e da sociedade como um todo A Ind stria do Petr leo e a Gera o Termel trica continuam ocupando papel primordial na matriz energ tica da maioria dos pa ses com desenvolvimento crescente de pesquisas e estudos na rea visando racionaliza o efici ncia e ao desenvolvimento sustent vel de suas atividades em especial no Brasil desde o epis dio do apag o e do racionamento passando pela descoberta de imensas jazidas de petr leo no Pr Sal Este livro procura unir esses assuntos de uma forma did tica embasada teoricamente com apresenta o de conceitos e ferramentas que permitam ao engenheiro compreender e aplic los de forma pr tica e objetiva em seus projetos e nas instala es industriais onde exer am sua atividade Fruto da experi ncia no trabalho e estudos cient ficos dos autores essa obra tamb m foi elaborada com a preocupa o em permitir o seu uso por professores de Engenharia e estudantes universit rios haja vista a escassez de textos sobre o tema para darem suporte ao estudo de disciplinas que explorem esses importantes assuntos

*Programas informáticos en eficiencia energética en edificios. ENAC0108* José Gustavo Jiménez Pérez, 2025-05-15 Libro especializado que se ajusta al desarrollo de la cualificaci n profesional y adquisici n del certificado de profesionalidad ENAC0108 EFICIENCIA ENERG TICA EN EDIFICIOS Manual

imprescindible para la formación y la capacitación que se basa en los principios de la cualificación y dinamización del conocimiento como premisas para la mejora de la empleabilidad y eficacia para el desempeño del trabajo **UF0571 -**

**Programas informáticos en eficiencia energética en edificios** Jose Miguel Vives Martínez, Ángela Martínez

Lago, 2015-05-22 La finalidad de esta Unidad Formativa es enseñar a realizar la calificación energética de edificios mediante la utilización de programas informáticos. Para ello, en primer lugar se explica detalladamente cómo se realiza la simulación energética de edificios para después pasar al cálculo de la limitación de la demanda energética y a la calificación energética mediante programas informáticos. **Eficiencia energética de los edificios. Sistema de gestión energética ISO 50001.**

**Auditorías energéticas** REY MARTINEZ, FRANCISCO JAVIER, VELASCO GOMEZ, ELOY, REY HERNÁNDEZ, JAVIER

MARÍA, 2018-07-27 Este libro actualiza la segunda parte del libro titulado Eficiencia energética en edificios. Certificación y auditorías energéticas al incluir como novedad el marco general de un sistema de gestión energética SGEN ISO 50001 y su aplicación a la eficiencia energética en el sector de los edificios así como las últimas normativas vigentes. El objetivo de esta obra es dar a conocer y dotar de herramientas prácticas al gestor energético de edificios el conocimiento de la SGEN ISO 50001 su aplicación así como la herramienta de auditoría energética para obtener las medidas de mejora y conseguir para un determinado edificio. Una mayor eficiencia energética. Un menor impacto ambiental. Un elevado ahorro económico. A través de un caso práctico aplicado a un edificio existente se analiza la metodología de un sistema de gestión energética ISO 50001 utilizada a nivel internacional. Asimismo, mediante el manejo de la herramienta de auditoría energética explicada, podemos obtener indicadores de gestión energética para optimizar la eficiencia energética del edificio en el caso práctico de un edificio en operación. Finalmente, se incluye otra herramienta novedosa como es el protocolo internacional de verificación y medida IPMVP de EVO. Su conocimiento y su aplicación son de gran utilidad en la gestión energética que utilizan las empresas de servicios energéticos ESE. Este libro junto con el primer volumen Eficiencia energética de los edificios. Certificación energética completan las dos herramientas más utilizadas en la eficiencia energética de los edificios: la certificación energética y la auditoría energética. **Evaluación para sistemas de bombeo de agua** Arturo Pedraza, Ramón Rosas, 2011-10-03 Con el propósito

de mejorar el servicio de agua potable que se brinda a la sociedad de los países de América Latina se ha desarrollado una metodología regional de eficiencia energética y mantenimiento que puede ser aplicada por empresas de agua. La presente publicación corresponde al Manual de evaluación de eficiencia energética para sistemas de bombeo en empresas de agua y saneamiento que se ha delineado a estos efectos. Se describen las etapas necesarias para realizar una auditoría energética en un sistema de agua y saneamiento para América Latina así como también las principales técnicas de ingeniería que se utilizan para el diagnóstico y la evaluación de las oportunidades de ahorro más importantes en este tipo de sistemas con el objetivo de identificar medidas técnicas y administrativas rentables para el ahorro de energía en dichas instalaciones. También están disponibles un Manual de mantenimiento para sistemas de bombeo de agua, una Hoja de cálculo de eficiencia energética para

sistemas de bombeo y una Guía para la hoja de cálculo *Metodologías de análisis para la Calificación Energética de Edificios (Serie Eficiencia Energética)* Ignacio Zabala Brián, 2010-12 Este manual pretende dar a conocer los aspectos básicos de la certificación energética de los edificios y explicar los procedimientos de certificación prescriptiva opcional simplificada a través de soluciones técnicas y prestacional opcional general a través de los programas informáticos de referencia CALENER VYP para viviendas y pequeños edificios terciarios y CALENER GT para grandes edificios terciarios El objetivo es explicar de un modo didáctico a través de distintos ejemplos la filosofía y alcance de la certificación de eficiencia energética que debe suscribir el arquitecto o el proyectista de las instalaciones y que debe incorporarse al proyecto de ejecución del edificio

**Patologia dos sistemas prediais hidráulicos e sanitários** Roberto de Carvalho Júnior, 2024-12-20 Em trinta anos de atuação como projetista de instalações prediais o engenheiro Roberto de Carvalho Júnior constatou diversas causas de patologias endógenas em sistemas prediais hidráulicos e sanitários que foram originadas por fatores inerentes própria edificação como falhas de projeto falhas de execução qualidade dos materiais e mau uso das instalações Como professor de disciplinas de instalações prediais em faculdades de Engenharia Civil e Arquitetura e Urbanismo o autor observou a carência e a importância de uma bibliografia que atendesse às necessidades de aprendizado e consulta sobre patologia dos sistemas prediais de água fria água quente esgoto e águas pluviais Este livro foi desenvolvido com a finalidade de transmitir a engenheiros civis arquitetos projetistas e alunos dos cursos de Engenharia Civil e Arquitetura e Urbanismo fundamentos teóricos e soluções práticas sobre manifestações patológicas em sistemas prediais hidráulicos e sanitários e suas causas visando prevenir falhas e adoção de medidas adequadas de reparos bem como ressaltar que o estudo desses problemas não reside somente na atuação corretiva mas na possibilidade da atuação preventiva especialmente quando eles têm por causa falhas no processo de produção dos projetos de engenharia

**Eficiencia energética en las instalaciones de climatización en los edificios.**  
**ENAC0108** Antonio Jesús Mendoza Ramírez, 2016-02-10 Libro especializado que se ajusta al desarrollo de la cualificación profesional y adquisición de certificados de profesionalidad Manual imprescindible para la formación y la capacitación que se basa en los principios de la cualificación y dinamización del conocimiento como premisas para la mejora de la empleabilidad y eficacia para el desempeño del trabajo

**Eficiencia energética en las instalaciones de climatización en los edificios**  
DE SIMÓN MARTÍN, MIGUEL, DIEZ SUÁREZ, ANA MARÍA, GONZÁLEZ MARTÍNEZ, ALBERTO, VEGA BARRALLO, BEATRIZ, DE LA PUENTE GIL, ALVARO, DE SOUSA DIAZ, LAURA, 2017-11-03 En la actualidad el análisis de la eficiencia energética en instalaciones de climatización de edificios representa un campo de amplia aplicación por lo que aquellos especialistas que aspiren a desarrollar su vida profesional en dicho ámbito laboral deberán dominar todos los elementos disponibles en materia de eficiencia energética así como también fases del proceso y del diseño de edificios catalogados como eficientes energéticamente La principal ventaja de llevar a cabo la aplicación de dichas medidas y procedimientos de eficiencia energética es una reducción económica en el gasto repercutido a los usuarios debido a que la energía se aprovecha

de una forma más adecuada. Supone además una disminución en el consumo energético de determinados recursos energéticos. A lo largo del libro los autores realizan un extenso análisis de todos los componentes a tener en cuenta a la hora de mejorar la eficiencia energética en edificios: topologías de instalación, componentes de las instalaciones, redes de transporte, equipos terminales. También se desarrollan medidas de regulación y diseño eficiente que deberán ser tenidas en cuenta en dichas instalaciones. Todo ello con un enfoque eminentemente práctico: explicaciones detalladas, ejemplos y ejercicios resueltos, junto con tablas, fórmulas, destacados e imágenes que facilitan y contribuyen a afianzar el proceso de aprendizaje con sencillez y dinamismo. Los contenidos responden fielmente a los de la unidad formativa UF0566 Eficiencia energética en las instalaciones de climatización en los edificios, incardinada en el módulo formativo MF 1194\_3 Evaluación de la eficiencia energética de las instalaciones en edificios, perteneciente al Certificado de Profesionalidad ENAC0108 Eficiencia energética de edificios, regulado por el RD 643/2011 de 9 de mayo.

**Sistemas de transmisión y frenado 3.ª edición 2025** ÁGUEDA CASADO, EDUARDO, GÓMEZ MORALES, TOMÁS, MARTÍN NAVARRO, JOSÉ, Eficiencia energética en las instalaciones de calefacción y ACS en los edificios DIEZ SUÁREZ, ANA MARÍA, GONZÁLEZ MARTÍNEZ, ALBERTO, DE LA PUENTE GIL, ALVARO, DE SOUSA DIAZ, LAURA, VEGA BARRALLO, BEATRIZ, 2015-01-01. En la actualidad el análisis de la eficiencia energética en instalaciones de calefacción y agua caliente sanitaria en edificios representa un campo de amplia aplicación por lo que aquellos especialistas que deseen desarrollar su vida profesional en este ámbito laboral deberán dominar todos los elementos disponibles en dicha materia. A través de este manual aprenderemos a calcular la eficiencia energética de los generadores de calor, circuladores y redes de tuberías de distribución mediante el análisis de la constitución y el funcionamiento de las mismas, conforme a la normativa vigente. Por otra parte analizaremos el funcionamiento de los sistemas de control, telegestión, aparatos de medida y veremos cómo comprobar que contribuyen a la eficiencia energética de la instalación de calefacción y ACS. Los contenidos del libro desarrollan fielmente la UF 0565 Eficiencia energética en instalaciones de calefacción y ACS en los edificios, incardinada en el MF 1194\_3 Evaluación de la eficiencia energética de las instalaciones en edificios, perteneciente al certificado de profesionalidad ENAC0108 Eficiencia energética de edificios, regulado por el RD 643/2011 de 9 de mayo.

**Técnicas para la elaboración de auditorías energéticas en el sector industrial (Serie eficiencia energética)** Barrio, Roberto, Zabalza Bribián, Ignacio, Díaz de Garayo Balsategui, Sergio, 2010-03-15. La eficiencia energética constituye, junto con las energías renovables, un potencial importante para mitigar los efectos negativos del consumo energético inducidos tanto por el crecimiento económico como por la transformación de las sociedades hacia modelos más intensivos en energía. En este volumen se realiza una descripción de los principales equipos y procesos industriales, consumidores de energía, y el potencial de ahorro energético existente aplicando las mejores técnicas disponibles en cada caso. Robótica Pablo Arturo Pacheco Granados, 2025-07-23. Encontrarás muy interesante el mapeo de los temas más importantes de Robótica desarrollados en este libro, con lo cual posteriormente podrás avanzar en tu dominio de la tecnología. 1 Fundamentos de Robótica

tica 2 Mecánica y Cinemática de Robots 3 Actuadores y Motores 4 Sensores y Percepción 5 Electrónica y Control en Robótica 6 Inteligencia Artificial y Aprendizaje Automático 7 Planificación y Navegación 8 Interacción Humano Robot HRI 9 Robótica Industrial 10 Robótica Móvil y Autonomía 11 Energía y Autonomía en Robots 12 Software y Simulación en Robótica     **El cultivo del olivo 6ª ed.** BARRANCO NAVERO, DIEGO, FERNANDEZ ESCOBAR, RICARDO, RALLO ROMERO, LUIS, 2007-12-01 La olivicultura en el mundo y en España Botánica y morfología Variedades y patrones Métodos de multiplicación Fructificación y producción Maduración Plantación Sistemas de manejo del suelo Fertilización Riego Fertirrigación Poda Mecanización Plagas Enfermedades Elaboración del aceite de oliva virgen La calidad del aceite de oliva El aderezo de las aceitunas El aceite de oliva en la dieta y salud humanas Economía del aceite de oliva



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