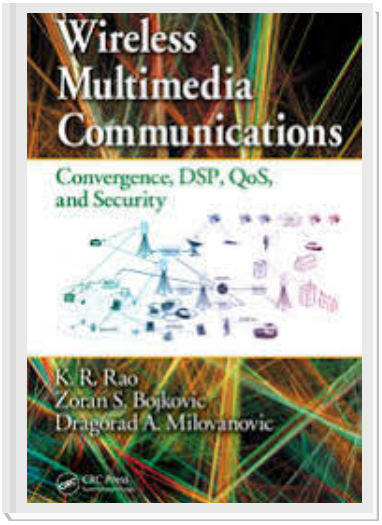
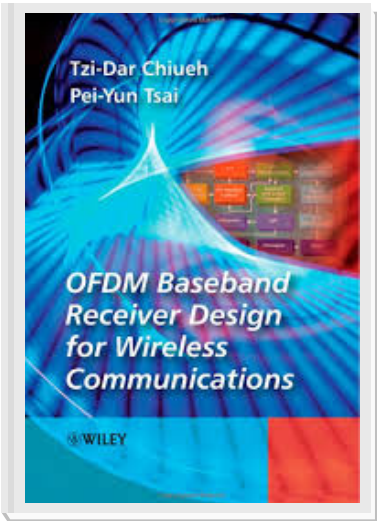
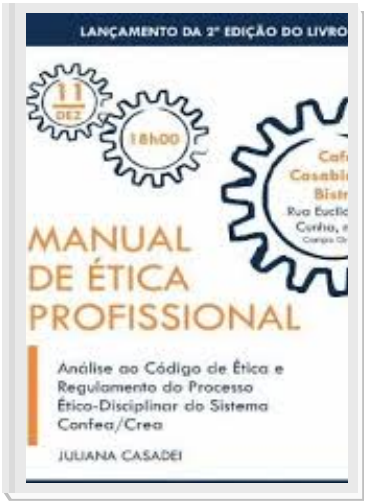
BIBLIOTECA

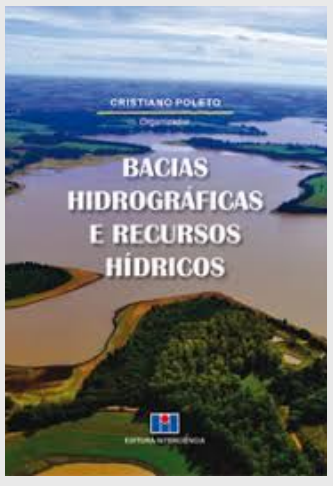
Prof. Dr. Sérgio Rodrigues Fontes

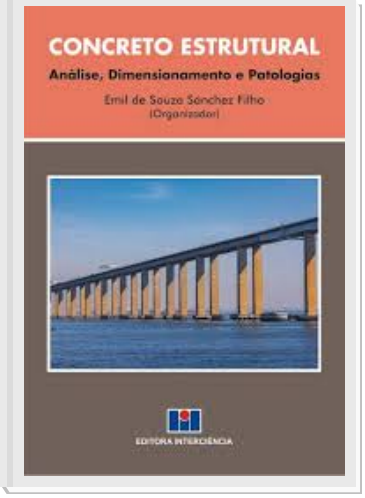
LIVROS







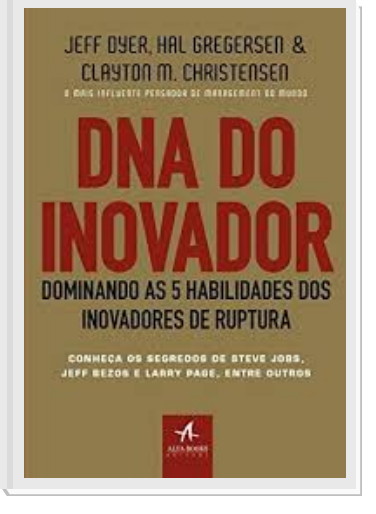


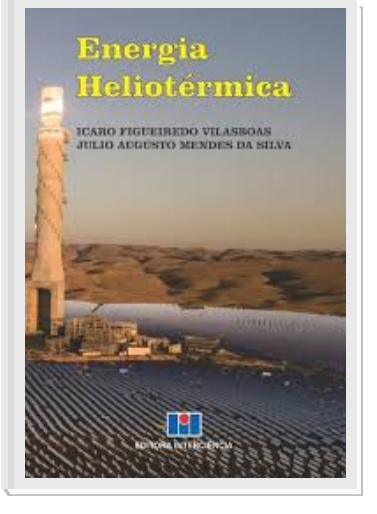


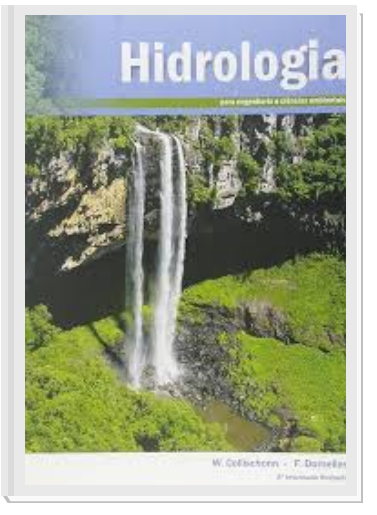
BIBLIOTECA

Prof. Dr. Sérgio Rodrigues Fontes

LIVROS



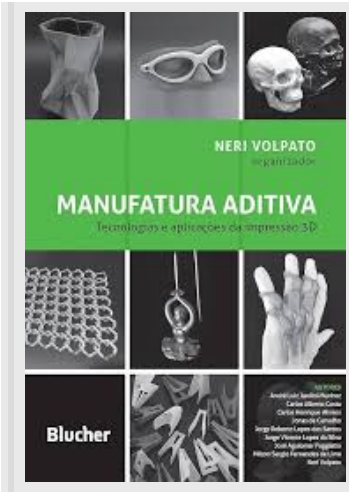


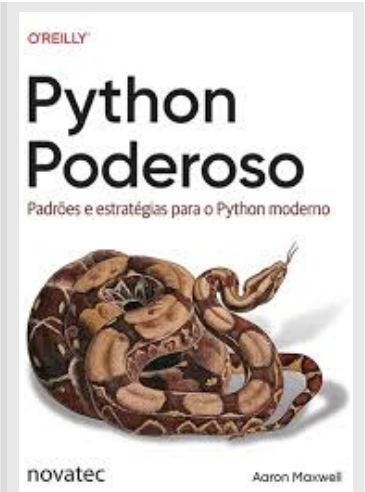


BIBLIOTECA

Prof. Dr. Sérgio Rodrigues Fontes

LIVROS

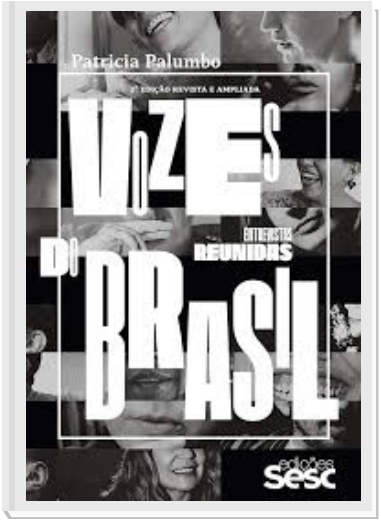


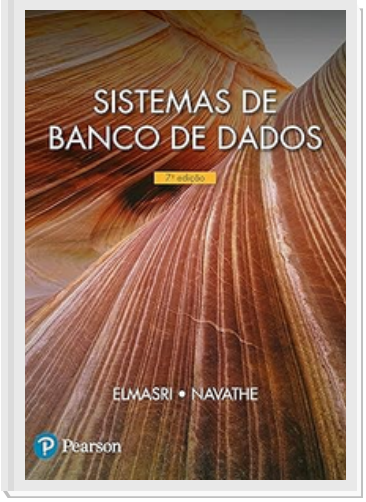


BIBLIOTECA

Prof. Dr. Sérgio Rodrigues Fontes

LIVROS





EESC • USP

Agosto/2025

BIBLIOTECA

Prof. Dr. Sérgio Rodrigues Fontes

ENGINEERING VILLAGE

Conde FF, Giarola JM, Bové O, Oliveira JP, Nizes A, Jardini A, Fonseca EB da, Oliveira MF de, Avila J. **Isolated effects of reverted austenite and precipitates on the mechanical properties of an additive-manufactured 18Ni maraging steel** [Internet]. Journal of Materials Science. 2025 ; 60 13671-13692. Available from: http://dx.doi.org/10.1007/s10853-025-11221-w

Montilla SK, Bosse RM, Lian MT, Gidrão G de MS, Yongtao B, Picón RA, Beck AT, Floréz-López J. **Damage-based fragility analysis of steel tubular-truss structures in harsh environments** [Internet]. International Journal of Mechanical Sciences. 2025 ; 304 1-19. Available from: http://dx.doi.org/10.1016/j.ijmecsci.2025.110688

Ribeiro AR, Freitas Junior JA de, Devens KU, Sakamoto IK, Varesche MBA, Silva EL. **Optimization of the bio-H2 and lactate production from vinasse and molasses: an experimental approach for the bioenergy development in Brazil** [Internet]. Environmental Technology. 2025 ; 1-19. Available from: http://dx.doi.org/10.1080/09593330.2025.2532194

Vargas JAM, Silva JR da, Alves ACL, Higuita GDG, Carvalho AJF, Burtoloso ACB. **Novel sulfur-containing polyurethanes using 5-(chloromethyl)furfural as a renewable building block** [Internet]. ChemSusChem. 2025 ;art. 2500888 (1-10). Available from: https://doi.org/10.1002/cssc.202500888

Vieira BF, Rabelo CAB da S, Ramos Muñoz VM, Zaiat M, Fermoso FG. **Boosting anaerobic lignin degradation in sulfate-reducing systems: roles of co-substrates, nutrients, and metals for advanced lignocellulosic biorefinery** [Internet]. Bioresource Technology. 2025 ; 436 1-11. Available from: https://dx.doi.org/10.1016/j.biortech.2025.133042

EESC • USP

Agosto de 2025.

Fagundes TA, Castro RS de, Campos MVR, Zilli BM, Silva LJR, Guerrero JM, Machado RQ. **A design approach for SoC integration with voltage restoration capability for redundancy-based DC microgrids** [Internet]. IEEE Open Journal of the Industrial Electronics Society. 2025 ; 6 1248-1268. Available from: http://dx.doi.org/10.1109/OJIES.2025.3596838

Souza AM de, Celino DR, Ragi R, Romero MA. **Analytical model for ballistic 2D nanotransistors** [Internet]. IEEE Open Journal of Nanotechnology. 2025 ; 1-11. Available from: http://dx.doi.org/10.1109/OJNANO.2025.3598219

Souza AM de, Celino DR, Ragi R, Romero MA. **Current-voltage modeling of transistors based on two-dimensional molybdenum disulfide** [Internet]. IEEE Access. 2025 ; 13 138112-138124. Available from: http://dx.doi.org/10.1109/ACCESS.2025.3595055

EESC • USP

Agosto de 2025.

Cavalcante TRF, Bon DG, Mariani FE, Coelho RT, Muñoz JA, Muñoz JC, Ribamar GG, Oliveira JP, Pereira AM de B, Ávila Diaz JA. **Microstructural assessment of additive-manufactured Inconel 718 samples subjected to heat treatments for enhanced mechanical properties** [Internet]. Progress in Additive Manufacturing. 2025 ; 1-18. Available from: http://dx.doi.org/10.1007/s40964-025-01279-y

Fagundes TA, Castro RS de, Campos MVR, Zilli BM, Silva LJR, Guerrero JM, Machado RQ. **A design approach for SoC integration with voltage restoration capability for redundancy-based DC microgrids** [Internet]. IEEE Open Journal of the Industrial Electronics Society. 2025 ; 6 1248-1268. Available from: http://dx.doi.org/10.1109/OJIES.2025.3596838

Montilla SK, Bosse RM, Lian MT, Gidrão G de MS, Yongtao B, Picón RA, Beck AT, Floréz-López J. **Damage-based fragility analysis of steel tubular-truss structures in harsh environments** [Internet]. International Journal of Mechanical Sciences. 2025 ; 304 1-19. Available from: http://dx.doi.org/10.1016/j.ijmecsci.2025.110688

Rangel UDOD, Ferreira MOA, Slade NBL, Gelamo RV, Baptista CARP, Pinto HC, Mota I, Koga GY, Águas HMB, Wolf W, Moreto JA. **Investigating the impact of nanostructured Nb2O5-based coating on the corrosion and corrosion-fatigue resistance of 2198-T8 aluminium alloy** [Internet]. Journal of Materials Research. 2025 ; 1-19. Available from: http://dx.doi.org/10.1557/s43578-025-01631-6

Souza AM de, Celino DR, Ragi R, Romero MA. **Analytical model for ballistic 2D nanotransistors** [Internet]. IEEE Open Journal of Nanotechnology. 2025 ; 1-11. Available from: http://dx.doi.org/10.1109/OJNANO.2025.3598219

Souza AM de, Celino DR, Ragi R, Romero MA. **Current-voltage modeling of transistors based on two-dimensional molybdenum disulfide** [Internet]. IEEE Access. 2025 ; 13 138112-138124. Available from: http://dx.doi.org/10.1109/ACCESS.2025.3595055

Souza AM de, Celino DR, Ragi R, Romero MA. **Current-voltage modeling of transistors based on two-dimensional molybdenum disulfide** [Internet]. IEEE Access. 2025 ; 13 138112-138124. Available from: http://dx.doi.org/10.1109/ACCESS.2025.3595055

EESC • USP

Agosto de 2025.

Alburguetti LM, Silva RM, Pavani APG, Ramos RA. **Methodology for voltage stability preventive control selection in short-term planning operation considering wind power generation** [Internet]. Sustainable Energy, Grids and Networks. 2025 ; 43 1-9. Available from: http://dx.doi.org/10.1016/j.segan.2025.101874

Cavalcante TRF, Bon DG, Mariani FE, Coelho RT, Muñoz JA, Muñoz JC, Ribamar GG, Oliveira JP, Pereira AM de B, Ávila Diaz JA. **Microstructural assessment of additive-manufactured Inconel 718 samples subjected to heat treatments for enhanced mechanical properties** [Internet]. Progress in Additive Manufacturing. 2025 ; 1-18. Available from: http://dx.doi.org/10.1007/s40964-025-01279-y

EESC • USP

Agosto de 2025.

Bermudez G, Cruz Neto HJ da, Alves MA do C, Medeiros VS, Barbosa JAF, Becker M, Cunha TB. **A comparative study of model-based and learning-based locomotion control for quadruped robots in oscillatory environments** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066110

Castaño Vanegas SM, Gonzalez Riascos JE, Becker M, Medeiros VS, Castillo Garcia JF. **Evaluation of noise parameters influence in an invariant extended Kalman filter for quadruped robots using regression analysis** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066130

Garcia JPB, Negri JD, Medeiros VS, Becker M. **Neural network-based velocity control for dynamic obstacle avoidance in legged robots** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11064871

Gonzalez Riascos JE, Castaño Vanegas SM, Medeiros VS, Becker M, Castillo Garcia JF. **Noise parameter tuning for an invariant extended Kalman filter implementation using genetic algorithms** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066078

Gouesbet G, Ambrosio LA. **The N-beam approach to describe arbitrary shaped acoustical fields** [Internet]. Journal of Sound and Vibration. 2025 ; 618 1-8. Available from: http://dx.doi.org/10.1016/j.jsv.2025.119355

Luna LS de, Savazzi J, Caurin GA de P. **A survey of sensing and interaction in robotic assembly** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11064863

Maitan L, Vergamini EG, Thema MDG, Pedro GDG, Negri JD, Alves MA do C, Becker M, Caurin GA de P, Cunha TB. **Optimizing inner force control loop for PMLSM using reinforcement learning** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066162

Marsicano JA, Tourinho F, Tayar MS, Becker M. **Exploring the impact of keypoint precision on vision-based autonomous navigation** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066144

Martins MDR, Medeiros VS, Alves MA do C, Pedro GDG, Becker M, Cunha TB. **Performance comparison of different localization methods for legged robots in indoor environments** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066088

Oliveira BB de, Bispo R, Grassi Júnior V. **Vehicle re-identification in BEV space with deep cosine metric learning** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11064866

Oliveira GW de, Becker M, Siqueira AAG. **Development of control systems for valve rotation operations using quadruped robots** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066167

Rangel UDOD, Ferreira MOA, Slade NBL, Gelamo RV, Baptista CARP, Pinto HC, Mota I, Koga GY, Águas HMB, Wolf W, Moreto JA. **Investigating the impact of nanostructured Nb2O5-based coating on the corrosion and corrosion-fatigue resistance of 2198-T8 aluminium alloy** [Internet]. Journal of Materials Research. 2025 ; 1-19. Available from: http://dx.doi.org/10.1557/s43578-025-01631-6

Thema MDG, Medeiros VS, Becker M. **Comprehensive review of contact estimation methods for legged robots** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066135

Ugucioni Filho F, Becker M, Higuti VAH. **State estimation of autonomous terrestrial robot using a neural network model** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066128

Vecchione A, Cunha TB. **Performance comparison of common low-level state estimators for legged robots** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066151

Zanette CLA, Vergamini EG, Santos LF dos, Maitan L, Cruz Neto HJ da, Alves MA do C, Cunha TB. **Pressure-based force control for hydraulic actuators with proportional flow valves** [Internet]. Proceedings. 2025 ; Available from: http://dx.doi.org/10.1109/CROS66186.2025.11066104

Agosto de 2025.

ARRUDA, Guilherme Simoneti de. **Metasurfaces for photonic sensors applications**. 2025. Tese (Doutorado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18155/tde-11082025-155639/

CARLET, João Victor Colombari. **Design and implementation of a hearing aid development board**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18155/tde-31072025-082100/

DESUÓ NETO, Luiz. **Untying the Gordian knot of Bayesian inference in Markov networks**. 2025. Tese (Doutorado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18153/tde-07082025-135629/

FERREIRA JUNIOR, Flavio Seixas Marques. **Planejamento estratégico de inovação do Open Finance por meio da abordagem de Roadmapping**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18156/tde-25082025-075158/

MELO, Rodrigo Souza de. **Simulação em elementos finitos de lajes steeldeck, bubbledeck e alveolar empregando técnicas de imersão**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18134/tde-14082025-081459/

MEZA, Danna Lizbeth Contreras. **Análise de desempenho de peças de manufatura aditiva por deposição a arco elétrico com arame de aço inoxidável 312L-Si para aplicações em ambientes corrosivos**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18158/tde-26082025-163745/

MORAES, Francisco Roza de. **High-precision 3D modeling from close-range imagery for laboratory structural testing**. 2025. Tese (Doutorado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18143/tde-31072025-135640/

OLIVEIRA, Matheus do Val. **Detecção e classificação de faltas em redes coletoras de parques eólicos via a Transformada de Stockwell e redes neurais artificiais**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18154/tde-11082025-074640/

PONTES, Andréia Cristina da Silva Jordão Emerenciano. **Estado de prontidão para introdução de tecnologias habilitadoras da Indústria 4.0 em ambientes de armazenagem de materiais médicos em hospitais**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18156/tde-07082025-142802/.

RIVEROS, Jose Alejandro Encinas. **Estimador de estado trifásico por mínimos quadrados ponderados dependentes**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18154/tde-11082025-080926/

ROSA, Jackson Aparecido de Souza. **Avaliação estrutural elástica pelo método dos elementos finitos do corpo de uma válvula de controle tipo globo submetida a ensaio hidrostático e comparação com resultados experimentais de extensometria**. 2025. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2025. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18163/tde-01082025-100751/

SANTOS, Matheus Schroeder dos. **Modelo preditivo de controle aplicado a definição de trajetórias ótimas operacionais em reservatórios urbanos**. 2024. Dissertação (Mestrado) – Universidade de São Paulo, São Carlos, 2024. Disponível em: https://www.teses.usp.br/teses/disponiveis/18/18138/tde-07012025-174524/

Agosto/2025

FOERSTE, Carlos Hermann Schütz. **Procedimento para ingressar no mercado livre de energia para consumidores do grupo A com geração distribuída**: estudo do caso da USP São Carlos. 2025. Trabalho de Conclusão de Curso (Graduação) – Escola de Engenharia de São Carlos, Universidade de São Paulo, São Carlos, 2025. Disponível em: https://bdta.abcd.usp.br/directbitstream/7f135999-e932-4996-b6b9-a23fc066add6/Foerste_Carlos_Hermann_Schutz.pdf.

MAYESE, Giovanna Siqueira e RAMOS, Rodrigo Andrade. **Sensitivity analysis for parameterization of generic wind generator models**. 2025. Trabalho de Conclusão de Curso (Graduação) – Escola de Engenharia de São Carlos, Universidade de São Paulo, São Carlos, 2025. Disponível em: https://bdta.abcd.usp.br/directbitstream/638ebc1f-d4f3-4d97-a802-9cddb623909a/Mayese_Giovanna_Siqueira.pdf.

SANTOS, Pedro Lucas Betarelo dos. **Análise de incerteza e previsão de geração eólica para estudos de margem de estabilidade de tensão**. 2025. Trabalho de Conclusão de Curso (Graduação) – Escola de Engenharia de São Carlos, Universidade de São Paulo, São Carlos, 2025. Disponível em: https://bdta.abcd.usp.br/directbitstream/25d5b8f0-0f27-4c66-91c4-5ef58381485c/Santos_Pedro_Lucas_Betarelo_dos.pdf. Acesso em: 13 ago. 2025.

VERONESE, Pedro Stefano e OLIVEIRA, Arthur Vieira da Silva. **Calibração de termografia de fluidos por fluorescência induzida a laser com aplicação em galeria de aquecimento de combustível para injeção em motores a combustão interna.** 2025. Trabalho de Conclusão de Curso (Graduação) – Escola de Engenharia de São Carlos, Universidade de São Paulo, São Carlos, 2025. Disponível em: https://bdta.abcd.usp.br/directbitstream/e33ee2cd-4f2c-426a-a339-69639f30a607/Veronese_Pedro_Stefano.pdf.

ZAMPERETI, Lívia de Oliveira e SILVA, Maíra Martins da. **Aprendizado por reforço aplicado a braço robótico em ambiente de simulação ROS**. 2025. Trabalho de Conclusão de Curso (Graduação) – Escola de Engenharia de São Carlos, Universidade de São Paulo, São Carlos, 2025. Disponível em: https://bdta.abcd.usp.br/directbitstream/188af519-015a-46c3-ae49-f76dac848438/Zampereti_L%C3%ADvia.pdf.

EESC • USP

Agosto/2025