Peer-reviewed publications

Aaron Nielsen

2025-06-29

Lathrop, F. W., Taylor, C. N., & Nielsen, A. P. (2024). Magnetic sensor compensation using factor graph estimation. *IEEE Sensors Journal*, *24*(15), 23711–23722. <https://doi.org/10.1109/JSEN.2024.3416618>

Moradi, M., Zhai, Z.-M., Nielsen, A., & Lai, Y.-C. (2024). Random forests for detecting weak signals and extracting physical information: A case study of magnetic navigation. *APL Machine Learning*, *2*(1). <https://doi.org/10.1063/5.0189564>

Araújo-Moreira, F. M., Maluf, W., Cecato, G. M., Kawashita, L. F., Barbara, P., Cawthorne, A. B., Nielsen, A., & Lobb, C. J. (2002). Introdução a supercondutores granulares artificiais: Redes de junções josephson. *Revista Brasileira de Ensino de Fı́sica*, *24*(4), 390–398. <https://doi.org/10.1590/S1806-11172002000400005>

Araújo-Moreira, F. M., Maluf, W., Cecato, G. M., Kawashita, L. F., Barbara, P., Cawthorne, A. B., Nielsen, A., & Lobb, C. J. (2002). Introdução a supercondutores granulares artificiais: Redes de junções josephson. *Revista Brasileira de Ensino de Fı́sica*, *24*(4). <https://doi.org/10.1590/S0102-47442002000400005>

Nielsen, A. P., Kerchner, H. R., Lobb, C. J., & Barbara, P. (2002). Magnetic imaging of YBCO on RABiTS using a squid microscope. *AIP Conference Proceedings*. <https://doi.org/10.1063/1.1472658>

Araújo-Moreira, F. M., Maluf, W., Cecato, G. M., Kawashita, L. F., Barbara, P., Cawthorne, A. B., Nielsen, A., & Lobb, C. J. (2001). Introduction to artificial superconducting systems: Josephson junction arrays. *Revista Brasileira de Ensino de Fisica*, *24*(4), 390–398.

Leo, C. D., Rotoli, G., Barbara, P., Nielsen, A., & Lobb, C. (2001). Mutual-inductance route to the paramagnetic meissner effect in two-dimensional josephson-junction arrays. *Physical Review B*, *64*(14), 144518. <https://doi.org/10.1103/PhysRevB.64.144518>

Nielsen, A. P., Cawthorne, A. B., Barbara, P., Wellstood, F. C., Lobb, C. J., Newrock, R. S., & Forrester, M. G. (2000). Paramagnetic meissner effect in multiply-connected superconductors. *Physical Review B*, *62*(21), 14380–14383. <https://doi.org/10.1103/PhysRevB.62.14380>

Nielsen, A. P., Holzer, J., Cawthorne, A. B., Lobb, C. J., Newrock, R. S., & Markus, J. (2000). The paramagnetic meissner effect in Nb/AlOx/Nb josephson junction arrays. *Physica B: Condensed Matter*, *280*(1-4), 444–445. <https://doi.org/10.1016/S0921-4526(99)01830-X>

Nielsen, A., Holzer, J. R., Cawthorne, A. B., Lobb, C. J., Newrock, R. S., & Markus, J. (2000). The paramagnetic meissner effect in Nb/AlO/Nb josephson junction arrays. *Physica B Condensed Matter*, *280*, 444–445.