



# Omnidirectional Inductive Powering for Biomedical Implants (Analog Circuits and Signal Processing)

*Bert Lenaerts, Robert Puers*

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Omnidirectional Inductive Powering for Biomedical Implants investigates the feasibility of inductive powering for capsule endoscopy and freely moving systems in general. The main challenge is the random position and orientation of the power receiving system with respect to the emitting magnetic field. Where classic inductive powering assumes a predictable or fixed alignment of the respective coils, the remote system is now free to adopt just any orientation while still maintaining full power capabilities. Before elaborating on different approaches towards omnidirectional powering, the design and optimisation of a general inductive power link is discussed in all its aspects. Special attention is paid to the interaction of the inductive power link with the patient's body. Putting theory into practice, the implementation of an inductive power link for a capsule endoscope is included in a separate chapter.



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