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talents, their ingenuity,
the technical skills, their
scientific knowhow, as well
as their humanistic and
spiritual upbringing,
reflecting upon the richness
of their culture and
traditions, developed

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throughout centuries in their ancestral home. This accounts for their remarkable success and achievements of these settlers in the New World, transcending through their descendants, as this

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publication demonstrates.
The monograph has been
organized into sections by
subject areas, i.e.,
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Environmental Sciences and Engineering. Each individual entry is usually accompanied with literature, and additional biographical sources for readers who wish to pursue a deeper study. The selection of individuals

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has been strictly based on geographical vantage, without regards to their native language or ethnical background. Some of the entries may surprise you, because their Czech or Slovak ancestry has not been

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generally known. What is conspicuous is a large percentage of listed individuals being Jewish, which is a reflection of high-level of education and intellect of Bohemian Jews. A prodigious number of

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accomplished women in this study is also astounding, considering that, in the 19th century, they rarely had careers and most professions refused entry to them.

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Overview and Goals Wireless communication technologies are undergoing rapid advancements. The last few years have experienced a steep growth in research in

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the area of wireless sensor networks (WSNs). In WSNs, communication takes place with the help of spatially distributed autonomous sensors not equipped to sense specific information. WSNs, especially the ones that have gained

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much popularity in the recent years, are, typically, ad hoc in nature and they inherit many characteristics/features of wireless ad hoc networks such as the ability for infrastructure-less setup,

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minimal or no reliance on network planning, and the ability of the nodes to self-organize and self-configure without the involvement of a centralized network manager, router, access point, or a switch. These features help

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to set up WSNs fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible, for example, in times of emergency or during relief -

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erations. WSNs find a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield, object tracking, habitat monitoring, patient

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monitoring, fire detection, and so on. Even though sensor networks have emerged to be attractive and they hold great promises for our future, there are several challenges that need to be addressed. Some of the well-

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known challenges are attributed to issues relating to coverage and deployment, scalability, quality-of-service, size, computational power, energy efficiency, and security. This book presents the

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