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Sommario/riassunto	This book reflects on the foundations and real-world situations for the special case of resource-aware communication systems. The surge in sensors and communication devices has brought in an explosion of data, necessitating a greater demand for computational resources for processing tasks, posing serious challenges to the optimal sharing of available resources among users, rendering the resource-sharing proposition even intractable at times. By introducing a generic relational framework, the contributory chapters treat the resource-sharing problem as an optimization problem with reference to the optimal utilization of the underlying resources to attain user satisfaction and fairness among users in resource access. Case studies highlighting specific resource-aware intelligent communication systems are also presented for the completeness of the treatment. The intended audience includes communication technologists and computational scientists. .