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abstract we describe our experience in designing object oriented software for sparse direct solvers we discuss spindle a library of sparse matrix ordering codes and oblio a package that implements the factorization and triangular solution steps of a direct solver we discuss the goals of our design managing complexity simplicity of interface flexibility extensibility safety and efficiency high performance is obtained by carefully implementing the computationally intensive kernels and by making several tradeoffs to balance the conflicting demands of efficiency and good software design some of the missteps that we made in the course of this work are also described

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