



Non-Homogeneous Boundary Value Problems and Applications: Vol. 1 (Grundlehren der mathematischen Wissenschaften)

Jacques Louis Lions, Enrico Magenes

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1. We describe, at first in a very formal manner, our essential aim. Let m be an open subset of \mathbb{R}^n , with boundary ∂m . In m and on ∂m we introduce, respectively, linear differential operators P and Q_j , $0 \leq j \leq n-1$. By "non-homogeneous boundary value problem" we mean a problem of the following type: let f and g_j , $0 \leq j \leq n-1$, be given in function spaces F and G_j , F being a space "on m " and the G_j spaces "on ∂m "; we seek u in a function space U "on m " satisfying (1) $Pu = f$ in m , (2) $Q_j u = g_j$ on ∂m , $0 \leq j \leq n-1$. Q_j may be identically zero on part of ∂m , so that the number of boundary conditions may depend on the part of ∂m considered. We take as "working hypothesis" that, for $f \in F$ and $g_j \in G_j$, j the problem (1), (2) admits a unique solution $u \in U$, which depends continuously on the data. But for all linear problems, there is a large number of choices for the spaces U and $\{F; G_j\}$ (naturally linked together). Generally speaking, our aim is to determine families of spaces U and $\{F; G_j\}$, associated in a "natural" way with problem (1), (2) and convenient for applications, and also all possible choices for U and $\{F; G_j\}$ in these families.

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