



**Constructive Methods for the Practical Treatment
of Integral Equations: Proceedings of the
Conference at the Mathematisches
Forschungsinstitut ... Series of Numerical
Mathematics)**

G. Hämmerlin, K.H. Hoffmann

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$O I 1^{-1}$ durch die Gauß-Quadraturformel $Q I n n L w 0 f(x 0) * i=1 1 1$ Sei $R_n := I - Q$ das Fehlerfunktional. $n |z|1$, Für eine im Kreis $Kr I Kr := \{z \in \mathbb{C} : |z| < r\}$ holomorphe Funktion $f, f(z) = \sum_{i=0}^{\infty} f_i z^i$ $= x \cdot (1. 1) := \sup\{ |a_0| r^i : i \in \mathbb{N} \text{ und } R(q_0) = O\}$, $q_0(x) = \frac{1}{n+1} \int_{-r}^r f(x) dx$ In $X_r := \{f: f \text{ holomorph in } Kr \text{ und } |f|_r < \infty\}$ ist $I \cdot I$ eine Seminorm. Das Fehlerfunktional R_n ist in $r(X I^* I r)$ stetig und $f \in U_r \cap R_n \cap I_r$, gilt die Identität $00 (1. 2) \sum_{i=0}^n f_i z^i$ Dieser Zugang zu ableitungsfreien Abschätzungen des Fehlerterms (1. 3) geht auf Hammerlin [4] zurück. 15 Erfüllt die Gewichtsfunktion w eine der Bedingungen $w(t) = w(-t)$; (1. 4. a) $w(-t) = w(t)^2$ beziehungsweise $w(t) = w(-t)^2$ (1. 4. b) $w(t) \sim w(-t)$ so gilt mit $P(x) = \sum_{i=0}^n c_i x^i$ $\int_{-r}^r P(x) w(x) dx = 0$ für die Fehlernorm $\|R_n(x)\| = \int_{-r}^r |P_n(x)| w(x) dx$ (1. 5. a) $\int_{-r}^r |P_n(x)| w(x) dx \sim \int_{-r}^r |P(x)| w(x) dx$ (1. 5. b) $\int_{-r}^r |P_n(x)| w(x) dx \sim \int_{-r}^r |P(x)| w(x) dx$.

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